M-Series
Packaged Air Conditioners

Range 4 TR to 31 TR
(14 kW to 110 kW)

Bulletin # 025/2009

Supersedes Bulletin # 025/2007 (A)

اجـهــزة تـكـيـيـف هـــواء
AIR CONDITIONING EQUIPMENT



R-22

ISO 9001
BUREAU VERITAS
Certification

SKM Packaged Air Conditioners
M-Series - R22

Contents

Legend

The following legends are used throughout this manual:

AFR ......Air Flow Rate
BPF ......By-pass Factor
CFM .....Cubic feet per minute
EER ..... Energy Efficiency Ratio
EWB .... Entering Wet Bulb
Hz .... Hertz
in.wg .... inch water gauge
kW .... Kilowatt
Kg .... Kilogram
lb ....Pound
L/S .... Liters per second
MBh ..... BTUH x 1000
Pa .... Pascal
Ph .... Phase
PI .... Power Input for Compressor
rpm ...... Rotations per Minute
TR .... Tons of refrigeration
V .... Volts

Nomenclature

PAC M - 050 Y

- PAC — Packaged Air Conditioner
- M — ***M - Series***
- 050 — Nominal Capacity in MBh
- Y — Power Supply Code
  - Y: 380V-415V/3Ph/50Hz
  - P: 440V/3Ph/50Hz
  - R: 380V/3Ph/60Hz
  - E: 460V-480V/3Ph/60Hz
  - T: 220-230V/3Ph/60Hz

Introduction

SKM M-Series Packaged Air Conditioners are heavy duty self contained units for commercial and top end residential usage. These units have many features not available in cheaper units not made for the Gulf or made primarily for the US domestic/ residential market and applications.

M-Series units are designed and manufactured to meet the requirements of the Gulf's severe climatic conditions and are built specifically for outdoor installations, either on ground or roof level.

SKM M-Series Packaged Air Conditioners are available in sizes from 4.0-28.0 TR (14-99 kW) in 50Hz and from 4.5-31.0 TR (16-110 kW) in 60Hz at nominal ARI conditions. Units are manufactured as per ARI-210/240 and 340/360 standards.

The M-Series Packaged Air Conditioners from SKM are factory assembled, leak tested, evacuated, internally wired and fully charged with refrigerant. Each unit is fully factory tested before despatch and is ready for installation. All that is required on site is to connect ducts, drain lines and main power supply which greatly reduces installation charges and labor costs.

SKM M-Series Packaged Air Conditioners are designed to operate in a wide ambient temperature range between 60°F (15.5°C) to 125°F (52.0°C). Two independent refrigeration circuits are provided where two compressors are used.

SKM M-Series Packaged Air Conditioners are :

Built in the Gulf ... for the world

SKM Packaged Air Conditioners
M-Series - R22

General Features

The SKM ***M - Series*** incorporates many salient features which, together, provides a heavy duty, robust, long lasting commercial unit meant for high end residential and most commercial applications.

The ***M - Series*** models combine a high efficiency condenser and cooling coil, evaporator blower and heavy duty motor in addition to exhaustive safety and operational controls.

The complete ***M - Series*** package unit provides an extremely rugged, heavy duty, long-life, energy efficient, self-contained package air conditioner that will provide cooling with higher efficiency over a long and extended life.

What makes ***M - Series*** yet another model in the top class range of SKM products is the use of

- High efficiency totally sealed hermetic compressors.
- Totally enclosed, Class F insulated, minimum IP55 protected condenser and evaporator fan motors.
- Heavy duty condenser and evaporator coils optimised in design for long-life maintenance free operation.
- Cabinet construction specifically designed for Gulf climates.
- Electrical panel with many features, as standard.
- Typically, much heavier gauge tubing and thicker fins for ruggedness and long life.

Component Features

Compressor

Compressors used in ***M - Series*** package unit are hermetically sealed reciprocating type (Scroll type compressors are used for Model 360). They are equipped with a crankcase heater as standard.



Compressors conform to internationally recognized standards like NF, VDE, CSA & UL.

All compressors are refrigerant gas cooled and provided with built-in protection for long life quiet operation (internal overload device and internal pressure relief valve).

The compressors, incorporating a built in muffler, are mounted on springs within a heavy gauge steel housing to give a low noise level. In addition, the compressors are provided with vibration isolators to further minimize noise and vibration.

Condenser

Condenser coils are air cooled and manufactured from cross fin waffle louvre and Hi-X seamless copper tubes with the internal surface of the tubes modified by serration to ensure optimum heat transfer. All coils are tested against leakage by air pressure of 450 psig (3100 kPa) under water. An integral subcooling circuit is incorporated in the lower section of the condenser to increase system capacity. The additional condenser surface provides more cooling using less energy at no additional cost.

Condenser fans are propeller type with aluminium alloy blades and are directly driven by electric motors. Motors are Totally Enclosed Air Over (TEAO) six pole with Class "F" insulation and minimum IP55 protection. The TEAO and Class "F" insulation features ensure long life and are unique to SKM**.**

The condenser fans are individually statically and dynamically balanced at the factory. Complete fan assembly is provided with suitable acrylic coated fan guard.



Motors are factory wired to the unit control panel where the motor contactors are located to control the operation of these motors.

Evaporator

Evaporator coils are manufactured from seamless copper tubes mechanically bonded to aluminium waven fins to ensure optimum heat transfer. All evaporator coils are tested against leakage by air pressure of 250 psig (1720 kPa) under water. Coils conform to ARI-410.

Evaporator fans are forward curved centrifugal double inlet, double width, statically and dynamically balanced. Bearings used in the fans are self aligning and lubricated for life. Evaporator fans are belt driven and use "V" belts with an adjustable variable pitch motor pulley resulting in an accurate fan air flow adjustment.

Fans are driven by totally enclosed air cooled, 4 pole electric motors. The motors are factory wired to the ***M - Series*** control panel where the motor contractors are located to control the operation of the motors. The motors conform with relevant IEC standards.

SKM Packaged Air Conditioners
M-Series - R22

Casing / Structure

The unit casing used in the ***M - Series*** is made of zinc coated galvanized steel sheets conforming to JIS-G 3302 and ASTMA525 which is phosphatized and baked after an electrostatic powder coat of approx. 60 microns. This finish and coating can pass a 1000 hour in 5% salt spray testing at 95°F (35°C) and 95% relative humidity as per ASTM B117- 95.

The evaporator section is insulated from all sides with 1" thick fibre glass insulation with extremly tough and durable black composite surface. The insulation cum sound liner meets the fire requirements of NFPA90A & 90B and is secured with mechanical fasteners in addition to water resistant adhesive.

Filter Section

The ***M - Series*** Packaged Air Conditioner has a flat filter section incorporating a 1" (25mm) thick cleanable media filter as standard with easy side access for removal and maintenance.

Control Panel

The ***M - Series*** Packaged Air Conditioner is provided with a weatherproof control panel enclosure comprising all starting, operating and safety controls.

The following are the standard components used in all ***M - Series*** Packaged Air Conditioners.

- Individual compressor, condenser fan motor and evaporator fan motor contactors.
- Condenser fan motor and evaporator fan motor overload relays.
- 24 volts low voltage fused transformer for user supplied and installed room thermostat.
- Anti-recycling time delay relay.
- Control circuit disconnect switch.
- Power & control circuit terminal blocks.
- High / Low Pressure Switch.

Optional Accessories

As with all SKM air conditioning units, the ***M - Series*** Packaged Units are available with a multitude of optional features available on request.

Voltage Monitoring Modules (VMM)

Provides protection to the ***M - Series*** in the event of :

- Phase burn-out
- Phase reversed
- Under voltage / Over voltage on the incoming line voltage

VMM Modifications for DEWA Code (DVM)

To meet DEWA regulations. This option is available for Dubai, U.A.E. only.

High & Low Pressure Gauges (SDG)

Unit mounted for each compressor to monitor the high and lo-side operating pressure.

2" (50mm) Flat Filter Section (FFS)

For heavy filtration needs a section can be provided without or with 2" (50mm) thick aluminium cleanable filter (2AF).

Liquid Line Sight Glass (RSG)

For monitoring refrigerant charge and to provide visual indication of moisture presence in system.

Electric Heating (HC@)

The heater batteries listed below are the standard available for this option:

Electric heater batteries are available with finned type elements. Heating elements are constructed from high quality 80/20 nickel chrome resistance wire centered in metal tubes by compressed magnesium oxide. Helical fins tightly wound round tubular heating element.

Following components are included with electric heater option:

- 3 pole magnetic contactor per stage
- 1 primary over current protection provided by Auto reset high limit safety cut-out
- 1 secondary over current protection provided by Manual reset high limit safety cut-out for positive break
- Control fuse
- Control switch
- Power fuses per NEC if total load exceeds 48 amps
- Factory installed air flow switch

PACM	Heater kW	Stages
050, 060 070, 080	4.5	1
090, 100 105, 110 120, 125	9	
140, 145, 155 160, 170, 220	18	2
240, 250 300, 320, 360	24	2

Pump Down Facility with solenoid valve (PDS)

For providing means to pump down circuit refrigerant gas into condenser.

Low Voltage Thermostat

(1 or 2 stages as per model) for wall mounting and for either cooling (COTS) or cooling/heating (CHTS) operation.

Extra Shut-off Valve (XFV)

To fully isolate refrigerant filter drier, an additional shut-off valve can be incorporated in the liquid line.

Alternative Condenser Material

Made of copper tubes and alternative fin material and/or protective coating.

- For Pre-Coated aluminum fins, specify **(FAP).**
- For Aluminum Fins with Aeris post Coat Protection, specify **(FAA).**
- For Copper Fins, specify **(FC).**
- For Copper Fins with Aeris post Coat Protection,specify **(FCA).**
- For electrotinned Copper Fins only, specify **(CFT).**
- For Copper Finned Coils electrotinned post manufacturing, specify **(FCT)**.

Alternative Evaporator Material

Made of copper tubes and alternative fin material and/or protective coating.

- For Pre-Coated aluminum fins, specify **(FAP).**
- For Aluminum Fins with Aeris post Coat Protection, specify **(FAA).**
- For Copper Fins, specify **(FC).**
- For Copper Fins with Aeris post Coat Protection, specify **(FCA).**
- For electrotinned Copper Fins only, specify **(CFT).**
- For Copper Finned Coils electrotinned post manufacturing, specify **(FCT)**.

Condenser Coil Guard (CGP)

Coil wire mesh guard, in galvanized and painted finish for condensers. Recommended on ground level installations where coil needs to be protected against vandalism.

Double Skin Insulation (DSI)

For evaporator section with foam board insulation.

Manual Reset Type Hi Pressure Switch (MHP)

Adjustable type can be used to replace the factory set non-adjustable, standard hi-pressure switch.

External Overload Protection (EOP)

For those electrical specification requires additional overload protection for the compressors.

Factory Installed Option

Microprocessor Based Control (MCP)

The conttroller consists of modules with on board display and user interface terminals. The modules are available in both panel and DIN rail versions. The controller has compact dimensions and can manage package unit with cooling / heating circuits.

The controller has the following features.

- Built in anti recycle timer to prevent compressor short cycling.
- Auto, lead/lag of the compressor.
- Common alarm available through the dry contact.
- Remote start/stop of the unit.
- Cooling and heating functions are available.
- BMS connectivity with external converter (Protocol: MODBUS)

Following parameters can display on the controller LCD:

- Return or space air temperature.
- High pressure, low pressure and air flow alarm.
- Icon of different modes.



Room terminal:

It has LCD with icons for remote wall-mounting in the room as a simple user interface, with built in temperature plus humidity sensor and the band management, for use in residential or smaller commercial services applications. Due to the built in temperature sensor, external sensors are not required. (Remote terminal with duct sensor available on request)



SKM Packaged Air Conditioners
M-Series - R22

ENGINEERING SPECIFICATIONS

Model PACM				050	060	070	080	090	100	105	110	120
Cooling Capacity (50 Hz) (1)			MBh	49.1	53.8	58.9	63.4	78.5	89.8	91.6	99.8	111.6
			kW	14.4	15.7	17.2	18.6	23	26.3	26.9	29.2	32.7
Cooling Capacity (60 Hz) (1)			MBh	54.3	59.6	65.0	70.1	86.9	98.3	100.8	109.9	122.7
			kW	15.9	17.4	19.0	20.5	25.5	28.8	29.5	32.2	35.9
Cooling Capacity (50 Hz) (2)			MBh	44.9	48.9	54.0	57.9	71.7	82.1	83.3	90.7	102.1
			kW	13.1	14.3	15.8	16.9	21	24.1	24.4	26.6	29.8
Cooling Capacity (60 Hz) (2)			MBh	49.7	54.4	59.8	64.3	79.7	89.8	91.9	100.2	112.7
			kW	14.6	16	17.5	18.8	23.4	26.3	26.9	29.4	33.0
Capacity Steps			%	100-0	100-0	100-0	100-0	100-0	100-50-0	100-0	100-50-0	100-50-0
Compressor		Type		Fully Hermatic Reciprocating								
		Code/Qty		MT-50/1	MT-56/1	MT-64/1	MT-72/1	MT-80/1	MT-50/2	MT-100/1	MT-56/2	MT-64/2
		Cylinders		2	2	2	2	2	2 X 2	4	2 X 2	2 X 2
		Speed (50/60Hz)	rpm	2900/3500								
		Ref. Oil		SUNISO-3GS								
		Oil Charge	US gal.	0.5	0.5	0.5	0.5	0.5	2 X 0.5	1.1	2X0.5	2 x 0.5
			Litre	1.9	1.9	1.9	1.9	1.9	2 x 1.9	4.2	2 x 1.9	2 x 1.9
Condenser	Coil	Type		Waffle louver fins and Hi-X tubes								
		Row/Stage/Qty		3/36/1	3/36/1	3/36/1	3/36/1	3/36/1	3/36/1	3/36/1	3/36/1	3/36/1
		Face Area	ft²	7	7	7	7	10	10	10	10	10
			m²	0.65	0.65	0.65	0.65	0.9	0.9	0.9	0.9	0.9
	Fan	Type		Propeller Direct Drive								
		Code/Qty		628/1	628/1	628/1	628/1	723/1	729/1	729/1	823/1	823/1
		Air Flow (50/60 Hz)	cfm	3700/4500	3700/4500	3700/4500	3700/4500	5990/6940	6500/7290	6500/7290	7260/8880	7260/8880
			l/s	1750/2120	1750/2120	1750/2120	1750/2120	2830/3280	3070/3440	3070/3440	3430/4190	3430/4190
	Motor	Type		Totally enclosed, Class-F insulation, 6-pole, IP55 Protected								
		Size (50/60Hz)	kW	0.37/0.55	0.37/0.55	0.37/0.55	0.37/0.55	0.75/1.1	1.1/1.5	1.1/1.5	1.1/1.5	1.1/1.5
Evaporator	Coil	Type		Cross Wave Fin, Staggered Tubes								
		Row/Stage		3/18	3/22	3/22	3/24	3/24	3/24	3/24	3/24	4/24
		Fin Spacing	fpi/mm	12/2.1	10/2.5	10/2.5	10/2.5	10/2.5	10/2.5	12/2.1	12/2.1	10/2.5
		Face Area	ft²	3.54	4.33	4.33	4.72	6.42	6.42	6.42	6.42	6.42
			m²	0.33	0.4	0.4	0.44	0.6	0.6	0.6	0.6	0.60
	Fan	Type		Centrifugal DIDW Belt Drive								
		Code/Qty		N10/1	N10/1	N10/1	N10/1	D10/2	D10/2	D10/2	D10/2	D10/2
		Air Flow (50/60 Hz)	cfm	1620	1940	2220	2400	3000	3180	3180	3180	3350
			l/s	764	915	1048	1133	1416	1501	1501	1501	1581
	Motor	Type		Totally Enclosed, Class F insulated, IP55 Protected								
		Size (50/60Hz)	kW	0.55	0.75	1.1	1.1	1.1	1.5	1.5	1.5	1.5
Refrigerant Operating Charge (R-22)			lbs/kg	7.2/3.3	7.5/3.4	7.5/3.4	7.9/3.5	9.7/4.4	2(6.8/3.1)	13.8/6.3	2(6.8/3.1)	2 (7.0/3.2)
Operating Weight Approximate			lbs/kg	428/194	448/204	458/208	468/212	600/270	660/300	650/295	660/300	680/310

Table 1

Notes:

1. Capacity rating as per ARI standard 210/240 & 340/360.
2. Cooling Capacity based on evaporator entering air conditions of 80°/67°F (27°/19.5°C) dry bulb/wet bulb and condenser entering air temperature of 115°F db (46°C)
3. Capacity is a gross capacity which does not include the effect of a evaporator fan motor heat.

ENGINEERING SPECIFICATIONS

125	140	145	155	160	170	220	240	250	300	320	360
110.1	137.7	139.8	153.8	154.0	159.7	180.8	216.3	226.0	257.1	290.4	335.5
32.2	40.3	41.0	45.1	45.1	46.8	52.9	63.4	66.2	75.9	85.1	98.3
121.1	152.3	154.3	169.6	170.3	177.1	198.8	236.9	248.2	283.1	320.4	372.1
35.5	44.6	45.2	49.7	49.9	51.9	58.2	69.4	72.7	83.0	93.9	109.1
99.4	126.2	126.3	139.2	141.0	145.8	164.6	195.6	203.1	232.1	262.6	310.6
29.1	37.0	37.0	40.8	41.3	42.7	48.2	57.3	59.5	68.0	77.0	91.0
110.0	140.1	139.8	154.4	156.5	162.3	181.4	215.1	224.2	256.6	291.7	345.4
32.2	41.1	41.0	45.3	45.9	47.6	53.2	63.1	65.7	75.2	85.5	101.2
100-0	100-50-0	100-0	100-0	100-50-0	100-50-0	100-50-0	100-50-0	100-50-0	100-50-0	100-50-0	100-50-0
Fully Hermetic Reciprocating											Scroll
MT-125/1	MT-72/2	MT-144/1	MT-160/1	MT-80/2	MT-80/2	MT-100/2	MT-125/2	MT-125/2	MT-144/2	MT-160/2	SM-185/2
4	2 X 2	4	4	2 X 2	2 x 2	2 X 4	2 X 4	2 X 4	2 x 4	2X4	-
2900/3500											
SUNISO - 3GS											
1.1	2X0.5	1.1	1.1	2 x 0.5	2 x 0.5	2 x 1.1	2 x 1.1	2 x 1.1	2 x 1.1	2 x 1.1	2 x 1.74
4.2	2 x 1.9	4.2	4.2	2 x 1.9	2 x 1.9	2 x 4.2	2 x 4.2	2 x 4.2	2 x 4.2	2 x 4.2	2 x 6.6
Waffle louver fins and Hi-X tubes											
3/36/1	3/40/2	3/40/2	3/40/2	3/40/2	3/40/2	3/40/2	3/40/2	3/40/2	3/48/2	3/48/2	3/48/2
10	20.6	20.6	20.6	20.6	20.6	20.6	20.6	20.6	34.4	34.4	34.4
0.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.2	3.2	3.2
Propeller Direct Drive											
823/1	723/2	723/2	723/2	723/2	723/2	729/2	729/2	729/2	823/2	823/2	829/2
7260/8880	12140/14100	12140/14100	12140/14100	12140/14100	12140/14100	13260/14960	13260/14960	13260/14960	18000/21900	18000/21900	20380/24760
3430/4190	5729/6654	5729/6654	5729/6654	5729/6654	5729/6654	6257/7060	6257/7060	6257/7060	8490/10330	8490/10330	9618/11685
Totally enclosed, Class-F insulation, 6-pole, IP55 Protected											
1.1/1.5	2(0.75/1.1)	2(0.75/1.1)	2(0.75/1.1)	2(0.75/1.1)	2(0.75/1.1)	2(1.1/1.5)	2(1.1/1.5)	2(1.1/1.5)	2(1.5/2.2)	2(1.5/2.2)	2(1.5/2.2)
Cross Wave Fin, Staggered Tubes											
4/24	3/24	3/24	3/27	3/27	3/36	3/36	3/36	4/36	3/36	4/36	4/42
10/2.5	12/2.1	12/2.1	12/2.1	12/2.1	10/2.5	10/2.5	12/2.1	10/2.5	12/2.1	10/2.5	10/2.5
6.42	9.26	9.26	10.42	10.42	13.9	13.9	13.9	13.9	17.5	17.5	20.42
0.60	0.86	0.86	0.97	0.97	1.29	1.29	1.29	1.29	1.62	1.62	1.9
Centrifugal DIDW Belt Drive											
D10/2	D12/2	D12/2	D12/2	D12/2	D12/2	D12/2	D12/2	D12/2	N15/2	N15/2	N15/2
3350	5010	5010	5500	5500	6000	6670	6950	7230	7500	9100	10400
1581	2364	2364	2595	2595	2831	3148	3280	3412	3539	4294	4908
Totally Enclosed, Class F insulated, IP55 Protected											
1.5	2.2	2.2	2.2	2.2	3.0	3.0	4.0	4.0	3.0	3.0	4.0
14.3/6.5	2(10.1/4.6)	19.1/8.7	19.6/8.9	2(10.1/4.6)	2(10.5/4.8)	2(11.0/5.0)	2(11.7/5.3)	2(12.2/5.5)	2(15.4/7.0)	2(17.4/7.9)	2(19.8/9)
670/305	1100/500	1100/500	1106/503	1106/503	1120/510	1240/560	1300/590	1300/590	1500/680	1500/680	1690/768

Table 1 ends

Notes:

1. Capacity rating as per ARI standard 210/240 & 340/360.
2. Cooling Capacity based on evaporator entering air conditions of 80°/67°F (27°/19.5°C) dry bulb/wet bulb and condenser entering air temperature of 115°F db (46°C)
3. Capacity is a gross capacity which does not include the effect of a evaporator fan motor heat.

CAPACITY RATINGS - 50 HZ

Model	AFR	EWB		Condenser Entering Air Temperature ºF (ºC)																			
	cfm			95°F (35°C)					105°F (40°C)					115°F (46°C)					125°F (52°C)				
PACM	l/s			Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI
[EER]	(BPF)	°F	°C	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW
50 [10.1]	1380	62	16.7	43.4	12.7	38.3	11.2	3.7	41.5	12.2	37.5	11.0	4.0	39.4	11.6	36.7	10.8	4.2	37.4	11.0	35.8	10.5	4.5
	651	67	19.4	47.7	14.0	32.0	9.4	3.9	45.7	13.4	31.3	9.2	4.2	43.6	12.8	30.5	8.9	4.4	41.6	12.2	29.7	8.7	4.7
	0.21	72	22.2	51.8	15.2	25.5	7.5	4.0	49.7	14.6	24.8	7.3	4.3	47.7	14.0	24.1	7.1	4.6	45.7	13.4	23.4	6.9	4.9
	1620	62	16.7	44.6	13.1	41.6	12.2	3.8	42.7	12.5	40.8	12.0	4.0	40.6	11.9	40.0	11.7	4.3	38.4	11.3	38.4	11.3	4.6
	764	67	19.4	49.1	14.4	34.5	10.1	3.9	47.1	13.8	33.7	9.9	4.2	44.9	13.2	32.9	9.7	4.5	42.8	12.6	32.2	9.4	4.8
	0.23	72	22.2	53.3	15.6	27.0	7.9	4.1	51.2	15.0	26.4	7.7	4.4	49.2	14.4	25.7	7.5	4.7	47.1	13.8	25.0	7.3	5.0
	1870	62	16.7	45.7	13.4	44.9	13.2	3.8	43.6	12.8	43.6	12.8	4.1	41.5	12.2	41.5	12.2	4.3	39.3	11.5	39.3	11.5	4.6
	882	67	19.4	50.3	14.7	36.9	10.8	4.0	48.2	14.1	36.1	10.6	4.3	46.0	13.5	35.3	10.4	4.5	43.9	12.9	34.6	10.1	4.9
	0.25	72	22.2	54.6	16.0	28.6	8.4	4.1	52.5	15.4	27.9	8.2	4.4	50.4	14.8	27.2	8.0	4.7	48.3	14.2	26.6	7.8	5.1
60 [9.5]	1660	62	16.7	47.8	14.0	40.4	11.8	4.3	45.7	13.4	39.5	11.6	4.7	43.4	12.7	38.6	11.3	5.1	41.1	12.0	37.6	11.0	5.5
	783	67	19.4	52.4	15.3	33.8	9.9	4.4	50.1	14.7	33.0	9.7	4.9	47.7	14.0	32.1	9.4	5.3	45.2	13.2	31.2	9.1	5.8
	0.27	72	22.2	56.6	16.6	27.0	7.9	4.6	54.2	15.9	26.2	7.7	5.0	51.6	15.1	25.3	7.4	5.5	49.0	14.4	24.5	7.2	6.0
	1940	62	16.7	49.2	14.4	43.5	12.8	4.3	46.9	13.8	42.6	12.5	4.7	44.6	13.1	41.7	12.2	5.1	42.1	12.3	40.7	11.9	5.6
	915	67	19.4	53.8	15.8	36.2	10.6	4.5	51.5	15.1	35.3	10.3	4.9	48.9	14.3	34.4	10.1	5.4	46.4	13.6	33.5	9.8	5.9
	0.30	72	22.2	58.2	17.1	28.5	8.4	4.6	55.7	16.3	27.7	8.1	5.1	53.0	15.5	26.8	7.9	5.6	50.3	14.7	25.9	7.6	6.1
	2220	62	16.7	50.2	14.7	46.5	13.6	4.4	47.9	14.0	45.6	13.4	4.8	45.4	13.3	44.6	13.1	5.2	42.9	12.6	42.9	12.6	5.7
	1048	67	19.4	55.0	16.1	38.3	11.2	4.5	52.5	15.4	37.5	11.0	5.0	49.9	14.6	36.6	10.7	5.4	47.3	13.9	35.6	10.4	5.9
	0.32	72	22.2	59.5	17.4	29.9	8.8	4.7	56.9	16.7	29.1	8.5	5.1	54.1	15.9	28.2	8.3	5.7	51.3	15.0	27.3	8.0	6.2
70 [8.9]	1900	62	16.7	52.3	15.3	44.5	13.0	5.0	50.2	14.7	43.6	12.8	5.3	47.9	14.1	42.7	12.5	5.7	45.6	13.4	41.7	12.2	6.1
	897	67	19.4	57.4	16.8	37.2	10.9	5.2	55.1	16.1	36.3	10.7	5.6	52.6	15.4	35.5	10.4	6.0	50.1	14.7	34.5	10.1	6.4
	0.29	72	22.2	62.1	18.2	29.6	8.7	5.3	59.7	17.5	28.8	8.4	5.8	57.1	16.7	28.0	8.2	6.2	54.4	15.9	27.1	7.9	6.7
	2220	62	16.7	53.7	15.7	47.9	14.0	5.0	51.5	15.1	47.0	13.8	5.4	49.1	14.4	46.1	13.5	5.8	46.7	13.7	45.1	13.2	6.2
	1048	67	19.4	58.9	17.3	39.7	11.6	5.2	56.5	16.6	38.9	11.4	5.6	54.0	15.8	38.0	11.1	6.0	51.3	15.0	37.0	10.9	6.5
	0.32	72	22.2	63.8	18.7	31.3	9.2	5.4	61.3	18.0	30.5	8.9	5.8	58.5	17.2	29.6	8.7	6.3	55.7	16.3	28.7	8.4	6.8
	2540	62	16.7	54.8	16.1	51.1	15.0	5.1	52.5	15.4	50.2	14.7	5.4	50.0	14.7	49.3	14.4	5.8	47.5	13.9	47.5	13.9	6.2
	1199	67	19.4	60.1	17.6	42.2	12.4	5.3	57.6	16.9	41.3	12.1	5.7	55.0	16.1	40.4	11.8	6.1	52.3	15.3	39.4	11.6	6.6
	0.34	72	22.2	65.2	19.1	32.9	9.6	5.5	62.5	18.3	32.0	9.4	5.9	59.7	17.5	31.2	9.1	6.3	56.8	16.6	30.2	8.9	6.8
80 [8.7]	2150	62	16.7	57.0	16.7	49.1	14.4	5.6	54.6	16.0	48.2	14.1	6.0	52.1	15.3	47.2	13.8	6.5	49.4	14.5	46.1	13.5	7.0
	1015	67	19.4	62.3	18.2	40.9	12.0	5.8	59.7	17.5	40.0	11.7	6.3	56.9	16.7	39.0	11.4	6.9	54.0	15.8	38.0	11.1	7.4
	0.30	72	22.2	67.2	19.7	32.4	9.5	6.1	64.4	18.9	31.5	9.2	6.6	61.5	18.0	30.6	9.0	7.2	59.9	17.6	30.1	8.8	7.4
	2400	62	16.7	58.0	17.0	51.8	15.2	5.6	55.5	16.3	50.8	14.9	6.1	52.9	15.5	49.8	14.6	6.6	50.2	14.7	48.7	14.3	7.1
	1133	67	19.4	63.4	18.6	42.9	12.6	5.9	60.7	17.8	41.9	12.3	6.4	57.9	17.0	40.9	12.0	6.9	56.4	16.5	40.4	11.8	7.2
	0.32	72	22.2	68.4	20.1	33.7	9.9	6.1	65.6	19.2	32.8	9.6	6.7	62.5	18.3	31.8	9.3	7.2	60.9	17.9	31.3	9.2	7.5
	2600	62	16.7	58.6	17.2	53.8	15.8	5.6	56.1	16.5	52.8	15.5	6.1	53.5	15.7	51.8	15.2	6.6	50.7	14.9	50.7	14.9	7.1
	1227	67	19.4	64.1	18.8	44.4	13.0	5.9	61.4	18.0	43.5	12.7	6.4	58.5	17.2	42.4	12.4	7.0	57.0	16.7	41.9	12.3	7.2
	0.33	72	22.2	69.3	20.3	34.7	10.2	6.2	66.3	19.4	33.7	9.9	6.7	63.2	18.5	32.8	9.6	7.3	61.6	18.0	32.3	9.5	7.5
90 [9.4]	2570	62	16.7	69.7	20.4	60.4	17.7	6.1	66.8	19.6	59.2	17.4	6.6	63.8	18.7	58.0	17.0	7.2	60.6	17.8	56.7	16.6	7.7
	1213	67	19.4	76.4	22.4	50.4	14.8	6.4	73.3	21.5	49.2	14.4	6.9	70.0	20.5	48.0	14.1	7.5	66.5	19.5	46.8	13.7	8.1
	0.28	72	22.2	82.7	24.2	40.0	11.7	6.6	79.3	23.2	38.9	11.4	7.2	75.7	22.2	37.7	11.1	7.8	72.0	21.1	36.5	10.7	8.4
	3000	62	16.7	71.5	21.0	65.2	19.1	6.2	68.5	20.1	63.9	18.7	6.7	65.3	19.1	62.7	18.4	7.3	62.0	18.2	61.3	18.0	7.8
	1416	67	19.4	78.5	23.0	53.9	15.8	6.5	75.2	22.0	52.7	15.5	7.0	71.7	21.0	51.5	15.1	7.6	68.1	19.9	50.2	14.7	8.2
	0.30	72	22.2	84.9	24.9	42.3	12.4	6.7	81.4	23.9	41.1	12.1	7.3	77.6	22.8	39.9	11.7	7.9	73.7	21.6	38.7	11.3	8.5
	3430	62	16.7	73.0	21.4	69.6	20.4	6.2	69.8	20.5	68.4	20.0	6.8	66.5	19.5	66.5	19.5	7.3	63.1	18.5	63.1	18.5	7.9
	1619	67	19.4	80.1	23.5	57.2	16.8	6.5	76.6	22.5	56.0	16.4	7.1	73.1	21.4	54.8	16.1	7.7	69.3	20.3	53.5	15.7	8.3
	0.33	72	22.2	86.7	25.4	44.4	13.0	6.8	83.0	24.3	43.2	12.7	7.4	79.1	23.2	42.0	12.3	8.0	77.1	22.6	41.4	12.1	8.3
100 [8.5]	2720	62	16.7	79.6	23.3	65.9	19.3	7.4	76.0	22.3	64.4	18.9	7.9	72.3	21.2	62.9	18.4	8.4	68.5	20.1	61.4	18.0	9.0
	1284	67	19.4	87.3	25.6	55.4	16.2	7.8	83.6	24.5	54.0	15.8	8.3	79.8	23.4	52.6	15.4	8.9	76.0	22.3	51.2	15.0	9.5
	0.29	72	22.2	94.6	27.7	44.4	13.0	8.1	90.8	26.6	43.2	12.7	8.6	86.9	25.5	41.9	12.3	9.2	83.2	24.4	40.7	11.9	9.9
	3180	62	16.7	81.9	24.0	71.0	20.8	7.5	78.2	22.9	69.5	20.4	8.0	74.3	21.8	67.9	19.9	8.6	70.4	20.6	66.3	19.4	9.1
	1501	67	19.4	89.8	26.3	59.2	17.3	7.9	86.0	25.2	57.8	16.9	8.4	82.1	24.1	56.3	16.5	9.0	78.2	22.9	55.0	16.1	9.6
	0.31	72	22.2	97.4	28.5	46.9	13.8	8.2	93.5	27.4	45.7	13.4	8.8	89.6	26.2	44.4	13.0	9.4	85.7	25.1	43.2	12.7	10.0
	3630	62	16.7	83.6	24.5	75.6	22.2	7.6	79.8	23.4	74.1	21.7	8.1	75.8	22.2	72.5	21.3	8.6	71.8	21.0	71.0	20.8	9.2
	1713	67	19.4	91.8	26.9	62.6	18.4	8.0	87.9	25.8	61.2	18.0	8.5	83.8	24.6	59.8	17.5	9.1	79.9	23.4	58.4	17.1	9.7
	0.34	72	22.2	99.5	29.2	49.2	14.4	8.3	95.6	28.0	47.9	14.0	8.9	91.6	26.8	46.7	13.7	9.5	87.6	25.7	45.4	13.3	10.1

CAPACITY RATINGS - 50 HZ

Model	AFR	EWB		Condenser Entering Air Temperature ºF (ºC)																			
	cfm			95°F (35°C)					105°F (40°C)					115°F (46°C)					125°F (52°C)				
PACM	l/s			Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI
[EER]	(BPF)	°F	°C	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW
105 [9.1]	2720	62	16.7	81.3	23.8	73.2	21.5	7.0	77.6	22.7	71.6	21.0	7.6	73.8	21.6	70.1	20.5	8.1	69.7	20.4	68.4	20.0	8.8
	1284	67	19.4	89.2	26.1	60.9	17.8	7.3	85.3	25.0	59.4	17.4	7.9	81.2	23.8	57.9	17.0	8.5	76.8	22.5	56.2	16.5	9.2
	0.22	72	22.2	96.6	28.3	48.1	14.1	7.4	92.5	27.1	46.7	13.7	8.1	88.1	25.8	45.2	13.3	8.8	83.4	24.4	43.7	12.8	9.6
	3180	62	16.7	83.5	24.5	79.3	23.3	7.1	79.6	23.3	77.8	22.8	7.6	75.6	22.2	75.6	22.2	8.2	71.4	20.9	71.4	20.9	8.9
	1501	67	19.4	91.6	26.9	65.4	19.2	7.3	87.5	25.6	63.9	18.7	7.9	83.3	24.4	62.3	18.3	8.6	78.6	23.0	60.7	17.8	9.3
	0.24	72	22.2	99.3	29.1	51.0	15.0	7.5	95.0	27.8	49.6	14.5	8.2	90.4	26.5	48.1	14.1	8.9	85.4	25.0	46.5	13.6	9.6
	3630	62	16.7	85.1	24.9	84.9	24.9	7.1	81.1	23.8	81.1	23.8	7.7	77.0	22.6	77.0	22.6	8.3	72.6	21.3	72.6	21.3	9.0
	1713	67	19.4	93.5	27.4	69.5	20.4	7.4	89.2	26.1	68.0	19.9	8.0	84.8	24.9	66.5	19.5	8.7	80.0	23.5	64.8	19.0	9.4
	0.26	72	22.2	101.3	29.7	53.7	15.7	7.5	96.8	28.4	52.2	15.3	8.2	92.1	27.0	50.7	14.9	9.0	86.9	25.5	49.1	14.4	9.7
110 [8.5]	2720	62	16.7	88.8	26.0	76.4	22.4	8.6	84.9	24.9	74.7	21.9	9.4	80.7	23.7	72.9	21.4	10.2	76.4	22.4	71.1	20.9	11.1
	1284	67	19.4	97.0	28.4	63.9	18.7	9.0	92.8	27.2	62.3	18.2	9.8	88.4	25.9	60.6	17.8	10.7	83.8	24.6	58.9	17.3	11.7
	0.22	72	22.2	104.8	30.7	50.8	14.9	9.3	100.3	29.4	49.3	14.4	10.2	95.5	28.0	47.7	14.0	11.2	93.2	27.3	46.9	13.7	11.7
	3180	62	16.7	91.3	26.8	82.6	24.2	8.7	87.1	25.5	80.8	23.7	9.5	82.8	24.3	79.0	23.2	10.3	78.3	23.0	77.2	22.6	11.2
	1501	67	19.4	99.8	29.2	68.4	20.1	9.1	95.3	27.9	66.8	19.6	10.0	90.7	26.6	65.1	19.1	10.9	86.0	25.2	63.3	18.6	11.8
	0.24	72	22.2	107.7	31.6	53.8	15.8	9.4	103.0	30.2	52.2	15.3	10.4	98.1	28.7	50.6	14.8	11.4	95.6	28.0	49.8	14.6	11.9
	3630	62	16.7	93.1	27.3	88.2	25.9	8.8	88.8	26.0	86.5	25.3	9.6	84.3	24.7	84.3	24.7	10.5	79.7	23.4	79.7	23.4	11.3
	1713	67	19.4	101.8	29.8	72.6	21.3	9.2	97.2	28.5	70.9	20.8	10.1	92.4	27.1	69.2	20.3	11.0	90.0	26.4	68.3	20.0	11.5
	0.26	72	22.2	110.0	32.2	56.5	16.6	9.5	105.1	30.8	54.9	16.1	10.5	100.0	29.3	53.2	15.6	11.5	97.4	28.6	52.4	15.4	12.0
120 [8.5]	2860	62	16.7	98.5	28.9	80.9	23.7	10.0	94.5	27.7	79.1	23.2	10.7	90.3	26.5	77.3	22.7	11.4	85.7	25.1	75.4	22.1	12.3
	1350	67	19.4	107.8	31.6	68.2	20.0	10.5	103.5	30.3	66.5	19.5	11.2	98.9	29.0	64.7	19.0	12.1	96.5	28.3	63.8	18.7	12.5
	0.20	72	22.2	116.6	34.2	54.9	16.1	10.9	111.9	32.8	53.3	15.6	11.7	107.0	31.4	51.6	15.1	12.6	104.5	30.6	50.8	14.9	13.1
	3350	62	16.7	101.9	29.9	87.5	25.6	10.2	97.6	28.6	85.7	25.1	10.9	93.1	27.3	83.8	24.6	11.6	88.3	25.9	81.9	24.0	12.5
	1581	67	19.4	111.6	32.7	73.2	21.4	10.7	107.0	31.3	71.4	20.9	11.4	102.1	29.9	69.6	20.4	12.3	99.6	29.2	68.7	20.1	12.7
	0.22	72	22.2	120.7	35.4	58.2	17.1	11.1	115.7	33.9	56.6	16.6	11.9	110.5	32.4	54.8	16.1	12.8	107.8	31.6	53.9	15.8	13.3
	3850	62	16.7	104.4	30.6	93.8	27.5	10.3	100.0	29.3	92.0	27.0	11.0	95.3	27.9	90.1	26.4	11.8	92.8	27.2	89.1	26.1	12.2
	1817	67	19.4	114.4	33.5	77.9	22.8	10.8	109.6	32.1	76.1	22.3	11.6	104.5	30.6	74.2	21.8	12.4	101.9	29.9	73.3	21.5	12.9
	0.24	72	22.2	123.8	36.3	61.3	18.0	11.2	118.6	34.8	59.6	17.5	12.1	113.2	33.2	57.9	17.0	13.0	110.4	32.4	57.0	16.7	13.5
125 [8.8]	2860	62	16.7	97.3	28.5	80.3	23.5	9.4	92.9	27.2	78.4	23.0	10.1	88.3	25.9	76.5	22.4	10.8	83.2	24.4	74.3	21.8	11.6
	1350	67	19.4	106.4	31.2	67.7	19.8	9.8	101.7	29.8	65.8	19.3	10.5	96.5	28.3	63.8	18.7	11.3	93.7	27.5	62.8	18.4	11.8
	0.20	72	22.2	115.0	33.7	54.4	15.9	10.2	109.7	32.2	52.6	15.4	11.0	103.9	30.4	50.6	14.8	11.9	100.8	29.6	49.5	14.5	12.3
	3350	62	16.7	100.6	29.5	86.9	25.5	9.6	95.9	28.1	85.0	24.9	10.2	91.0	26.7	82.9	24.3	11.0	88.3	25.9	81.8	24.0	11.3
	1581	67	19.4	110.1	32.3	72.6	21.3	10.0	104.9	30.8	70.7	20.7	10.7	99.4	29.1	68.6	20.1	11.5	96.4	28.3	67.5	19.8	12.0
	0.22	72	22.2	118.9	34.9	57.6	16.9	10.4	113.2	33.2	55.7	16.3	11.2	106.8	31.3	53.6	15.7	12.1	103.6	30.4	52.6	15.4	12.6
	3850	62	16.7	103.0	30.2	93.3	27.3	9.7	98.2	28.8	91.3	26.8	10.4	93.0	27.3	89.2	26.1	11.1	90.2	26.4	88.1	25.8	11.5
	1817	67	19.4	112.8	33.1	77.3	22.6	10.1	107.4	31.5	75.3	22.1	10.9	101.5	29.8	73.1	21.4	11.7	98.5	28.9	72.0	21.1	12.1
	0.24	72	22.2	121.9	35.7	60.7	17.8	10.5	115.8	33.9	58.7	17.2	11.4	109.0	32.0	56.5	16.6	12.3	105.7	31.0	55.4	16.2	12.8
140 [9.2]	4240	62	16.7	122.2	35.8	111.2	32.6	10.5	117.2	34.4	109.2	32.0	11.4	112.1	32.8	107.0	31.4	12.4	106.6	31.3	104.8	30.7	13.4
	2001	67	19.4	134.0	39.3	92.3	27.1	11.0	128.6	37.7	90.3	26.5	11.9	123.0	36.1	88.2	25.9	13.0	117.1	34.3	86.0	25.2	14.0
	0.23	72	22.2	145.1	42.5	72.6	21.3	11.4	139.3	40.8	70.7	20.7	12.4	133.3	39.1	68.7	20.1	13.5	126.9	37.2	66.6	19.5	14.6
	5010	62	16.7	125.5	36.8	121.2	35.5	10.7	120.2	35.2	119.1	34.9	11.5	114.8	33.7	114.8	33.7	12.5	109.2	32.0	109.2	32.0	13.6
	2364	67	19.4	137.7	40.3	99.6	29.2	11.1	132.0	38.7	97.5	28.6	12.1	126.2	37.0	95.5	28.0	13.1	120.0	35.2	93.3	27.3	14.2
	0.26	72	22.2	149.1	43.7	77.4	22.7	11.5	143.1	41.9	75.4	22.1	12.5	136.7	40.1	73.4	21.5	13.6	130.0	38.1	71.2	20.9	14.7
	5550	62	16.7	127.2	37.3	127.2	37.3	10.7	121.9	35.7	121.9	35.7	11.6	116.3	34.1	116.3	34.1	12.6	110.5	32.4	110.5	32.4	13.6
	2619	67	19.4	139.7	40.9	104.4	30.6	11.2	133.9	39.2	102.3	30.0	12.1	127.8	37.5	100.2	29.4	13.2	121.5	35.6	98.0	28.7	14.3
	0.27	72	22.2	151.3	44.3	80.4	23.6	11.6	145.1	42.5	78.4	23.0	12.6	138.6	40.6	76.4	22.4	13.7	131.7	38.6	74.2	21.8	14.8
145 [9.7]	4240	62	16.7	123.9	36.3	112.0	32.8	10.0	118.1	34.6	109.5	32.1	10.8	111.8	32.8	107.0	31.3	11.7	105.2	30.8	104.3	30.6	12.5
	2001	67	19.4	136.0	39.9	93.1	27.3	10.4	129.8	38.0	90.7	26.6	11.2	123.1	36.1	88.2	25.9	12.2	116.0	34.0	85.6	25.1	13.1
	0.23	72	22.2	147.5	43.2	73.4	21.5	10.7	140.8	41.3	71.2	20.9	11.6	133.7	39.2	68.8	20.2	12.6	126.2	37.0	66.4	19.5	13.7
	5010	62	16.7	127.3	37.3	121.9	35.7	10.1	121.2	35.5	119.4	35.0	10.9	114.7	33.6	114.7	33.6	11.8	107.8	31.6	107.8	31.6	12.7
	2364	67	19.4	139.8	41.0	100.4	29.4	10.5	133.3	39.1	98.0	28.7	11.4	126.3	37.0	95.5	28.0	12.3	118.9	34.9	92.9	27.2	13.3
	0.26	72	22.2	151.7	44.5	78.2	22.9	10.8	144.7	42.4	75.9	22.3	11.8	137.2	40.2	73.5	21.6	12.8	129.4	37.9	71.0	20.8	13.9
	5550	62	16.7	129.1	37.9	128.4	37.6	10.2	122.9	36.0	122.9	36.0	11.0	116.2	34.1	116.2	34.1	11.8	109.2	32.0	109.2	32.0	12.8
	2619	67	19.4	141.9	41.6	105.2	30.8	10.5	135.2	39.6	102.8	30.1	11.4	128.0	37.5	100.3	29.4	12.4	120.5	35.3	97.6	28.6	13.4
	0.27	72	22.2	154.0	45.1	81.3	23.8	10.9	146.8	43.0	79.0	23.1	11.8	139.2	40.8	76.6	22.4	12.9	131.2	38.5	74.1	21.7	14.0

CAPACITY RATINGS - 50 HZ

Model / PACM [EER]	AFR cfm / l/s (BPF)	EWB °F	EWB °C	95°F (35°C) Total Capacity MBh	kW	95°F (35°C) Sensible Capacity MBh	kW	PI kW	105°F (40°C) Total Capacity MBh	kW	105°F (40°C) Sensible Capacity MBh	kW	PI kW	115°F (46°C) Total Capacity MBh	kW	115°F (46°C) Sensible Capacity MBh	kW	PI kW	125°F (52°C) Total Capacity MBh	kW	125°F (52°C) Sensible Capacity MBh	kW	PI kW
155 [9.7]	4950	62	16.7	137.6	40.3	127.2	37.3	11.5	131.3	38.5	124.6	36.5	12.4	124.8	36.6	122.0	35.8	13.3	117.9	34.5	117.9	34.5	14.2
	2336	67	19.4	151.2	44.3	105.4	30.9	12.0	144.4	42.3	102.9	30.2	12.9	137.1	40.2	100.2	29.4	13.9	129.2	37.9	97.3	28.5	14.9
	0.24	72	22.2	164.0	48.1	82.8	24.3	12.4	156.6	45.9	80.3	23.5	13.4	148.3	43.5	77.6	22.7	14.5	139.1	40.8	74.6	21.9	15.7
	5500	62	16.7	139.9	41.0	134.3	39.4	11.6	133.4	39.1	131.7	38.6	12.5	126.8	37.2	126.8	37.2	13.4	119.5	35.0	119.5	35.0	14.3
	2595	67	19.4	153.8	45.1	110.6	32.4	12.1	146.8	43.0	108.1	31.7	13.0	139.2	40.8	105.4	30.9	14.0	131.0	38.4	102.4	30.0	15.1
	0.25	72	22.2	166.9	48.9	86.2	25.3	12.5	159.2	46.7	83.7	24.5	13.5	150.5	44.1	80.9	23.7	14.6	141.0	41.3	77.8	22.8	15.8
	6000	62	16.7	141.7	41.5	140.4	41.2	11.7	135.0	39.6	135.0	39.6	12.6	128.2	37.6	128.2	37.6	13.5	120.8	35.4	120.8	35.4	14.4
	2831	67	19.4	155.8	45.7	115.1	33.7	12.1	148.6	43.6	112.6	33.0	13.1	140.8	41.3	109.8	32.2	14.1	132.3	38.8	106.8	31.3	15.2
	0.27	72	22.2	169.2	49.6	89.1	26.1	12.5	161.2	47.3	86.5	25.4	13.6	152.1	44.6	83.6	24.5	14.7	142.3	41.7	80.6	23.6	15.9
160 [9.3]	4950	62	16.7	138.2	40.5	127.5	37.4	12.1	132.5	38.8	125.1	36.7	13.1	126.6	37.1	122.7	36.0	14.2	120.3	35.3	120.2	35.2	15.4
	2336	67	19.4	151.5	44.4	105.5	30.9	12.7	145.3	42.6	103.2	30.2	13.7	138.8	40.7	100.8	29.6	14.9	132.0	38.7	98.4	28.8	16.1
	0.24	72	22.2	163.9	48.0	82.7	24.2	13.1	157.3	46.1	80.5	23.6	14.3	150.3	44.1	78.3	22.9	15.5	142.9	41.9	75.9	22.2	16.7
	5500	62	16.7	140.5	41.2	134.6	39.4	12.2	134.6	39.5	132.2	38.7	13.2	128.5	37.7	128.5	37.7	14.3	122.1	35.8	122.1	35.8	15.5
	2595	67	19.4	154.0	45.1	110.7	32.4	12.8	147.7	43.3	108.4	31.8	13.8	141.0	41.3	106.0	31.1	15.0	134.0	39.3	103.5	30.3	16.2
	0.25	72	22.2	166.7	48.9	86.1	25.2	13.2	159.9	46.9	83.9	24.6	14.4	152.7	44.8	81.6	23.9	15.6	145.1	42.5	79.1	23.2	16.8
	6000	62	16.7	142.2	41.7	140.7	41.2	12.3	136.2	39.9	136.2	39.9	13.3	130.0	38.1	130.0	38.1	14.4	123.4	36.2	123.4	36.2	15.6
	2831	67	19.4	156.0	45.7	115.2	33.8	12.8	149.5	43.8	112.9	33.1	13.9	142.7	41.8	110.5	32.4	15.1	135.5	39.7	108.0	31.6	16.3
	0.27	72	22.2	168.8	49.5	89.0	26.1	13.3	161.9	47.4	86.7	25.4	14.5	154.5	45.3	84.4	24.7	15.7	146.7	43.0	82.0	24.0	16.9
170 [9.0]	5010	62	16.7	141.2	41.4	121.5	35.6	12.2	135.2	39.6	119.1	34.9	13.3	129.1	37.8	116.6	34.2	14.4	122.6	35.9	113.9	33.4	15.5
	2364	67	19.4	154.8	45.4	101.6	29.8	12.8	148.4	43.5	99.1	29.1	13.9	141.6	41.5	96.7	28.3	15.1	134.6	39.4	94.1	27.6	16.2
	0.26	72	22.2	167.5	49.1	80.7	23.7	13.3	160.6	47.1	78.4	23.0	14.4	153.4	45.0	76.1	22.3	15.7	145.7	42.7	73.6	21.6	16.9
	6000	62	16.7	145.6	42.7	132.7	38.9	12.4	139.3	40.8	130.2	38.2	13.5	132.8	38.9	127.6	37.4	14.6	125.9	36.9	124.9	36.6	15.7
	2831	67	19.4	159.7	46.8	109.8	32.2	13.0	153.0	44.8	107.4	31.5	14.1	145.8	42.7	104.9	30.7	15.3	138.3	40.5	102.2	30.0	16.5
	0.29	72	22.2	173.0	50.7	86.2	25.3	13.5	165.7	48.6	83.8	24.6	14.6	158.0	46.3	81.3	23.8	15.9	154.0	45.1	80.1	23.5	16.5
	6950	62	16.7	148.8	43.6	142.8	41.8	12.6	142.3	41.7	140.2	41.1	13.6	135.5	39.7	135.5	39.7	14.7	128.4	37.6	128.4	37.6	15.9
	3280	67	19.4	163.4	47.9	117.3	34.4	13.1	156.3	45.8	114.8	33.7	14.2	148.9	43.6	112.2	32.9	15.4	141.1	41.4	109.5	32.1	16.6
	0.32	72	22.2	177.0	51.9	91.0	26.7	13.6	169.4	49.7	88.6	26.0	14.8	161.4	47.3	86.1	25.2	16.0					
220 [9.1]	6320	62	16.7	163.3	47.9	142.8	41.9	14.0	155.8	45.7	139.8	41.0	15.1	148.3	43.5	136.7	40.1	16.2	140.1	41.1	133.5	39.1	17.5
	2982	67	19.4	179.2	52.5	119.0	34.9	14.4	171.3	50.2	116.1	34.0	15.6	163.1	47.8	113.1	33.2	17.0	154.3	45.2	110.0	32.2	18.4
	0.30	72	22.2	194.1	56.9	94.2	27.6	14.8	185.8	54.5	91.5	26.8	16.1	177.1	51.9	88.7	26.0	17.6	167.6	49.1	85.6	25.1	19.1
	6670	62	16.7	164.8	48.3	146.6	43.0	14.1	157.2	46.1	143.5	42.1	15.1	149.5	43.8	140.5	41.2	16.3	141.2	41.4	137.2	40.2	17.6
	3148	67	19.4	180.8	53.0	121.8	35.7	14.5	172.8	50.7	118.8	34.8	15.7	164.6	48.2	115.9	34.0	17.0	155.6	45.6	112.7	33.0	18.4
	0.31	72	22.2	196.0	57.4	96.0	28.1	14.8	187.5	55.0	93.3	27.3	16.2	178.6	52.4	90.5	26.5	17.7	169.0	49.5	87.4	25.6	19.1
	7140	62	16.7	166.6	48.8	151.5	44.4	14.1	158.8	46.6	148.5	43.5	15.2	151.0	44.3	145.3	42.6	16.4	142.6	41.8	142.0	41.6	17.7
	3369	67	19.4	182.8	53.6	125.4	36.8	14.5	174.7	51.2	122.5	35.9	15.8	166.3	48.7	119.5	35.0	17.1	157.1	46.0	116.3	34.1	18.5
	0.32	72	22.2	198.2	58.1	98.4	28.9	14.8	189.6	55.6	95.7	28.0	16.2	180.5	52.9	92.8	27.2	17.8	170.7	50.0	89.7	26.3	19.2
240 [8.4]	6650	62	16.7	196.4	57.6	175.6	51.5	19.0	187.4	54.9	171.8	50.4	20.4	177.9	52.1	167.9	49.2	21.8	167.4	49.1	163.6	48.0	23.4
	3138	67	19.4	214.7	62.9	145.9	42.8	19.9	204.9	60.1	142.2	41.7	21.3	194.3	57.0	138.2	40.5	22.9	188.7	55.3	136.1	39.9	23.8
	0.24	72	22.2	232.0	68.0	115.0	33.7	20.7	221.0	64.8	111.3	32.6	22.3	209.0	61.2	107.4	31.5	24.0	202.8	59.4	105.4	30.9	25.0
	6950	62	16.7	197.8	58.0	179.5	52.6	19.1	188.7	55.3	175.7	51.5	20.4	179.0	52.5	171.8	50.3	21.9	168.5	49.4	167.5	49.1	23.5
	3280	67	19.4	216.3	63.4	148.8	43.6	19.9	206.4	60.5	145.0	42.5	21.4	195.6	57.3	141.1	41.3	23.0	189.8	55.6	139.0	40.7	23.8
	0.24	72	22.2	233.7	68.5	116.9	34.3	20.7	222.5	65.2	113.2	33.2	22.4	210.3	61.6	109.2	32.0	24.1	204.0	59.8	107.1	31.4	25.1
	7400	62	16.7	199.7	58.5	185.2	54.3	19.2	190.5	55.8	181.4	53.2	20.5	180.6	52.9	177.4	52.0	22.0	175.4	51.4	175.3	51.4	22.7
	3492	67	19.4	218.5	64.0	153.0	44.8	20.0	208.3	61.1	149.2	43.7	21.5	197.3	57.8	145.2	42.6	23.1	191.5	56.1	143.1	41.9	24.0
	0.25	72	22.2	236.1	69.2	119.6	35.0	20.8	224.6	65.8	115.8	34.0	22.5	212.0	62.1	111.8	32.8	24.3	205.7	60.3	109.7	32.2	25.3
250 [8.6]	7000	62	16.7	205.2	60.2	180.2	52.8	19.4	195.5	57.3	176.2	51.6	20.8	185.1	54.3	171.9	50.4	22.3	179.6	52.6	169.6	49.7	23.1
	3303	67	19.4	224.6	65.8	150.2	44.0	20.3	213.8	62.7	146.1	42.8	21.8	202.0	59.2	141.7	41.5	23.5	195.9	57.4	139.5	40.9	24.4
	0.22	72	22.2	242.7	71.1	118.8	34.8	21.2	230.3	67.5	114.6	33.6	22.8	216.8	63.6	110.2	32.3	24.7	210.2	61.6	108.1	31.7	25.7
	7230	62	16.7	206.5	60.5	183.2	53.7	19.5	196.6	57.6	179.1	52.5	20.9	186.1	54.5	174.8	51.2	22.3	180.5	52.9	172.6	50.6	23.1
	3412	67	19.4	226.0	66.2	152.4	44.7	20.4	215.0	63.0	148.3	43.5	21.9	203.1	59.5	143.9	42.2	23.6	196.9	57.7	141.6	41.5	24.5
	0.22	72	22.2	244.2	71.6	120.2	35.2	21.2	231.6	67.9	116.1	34.0	22.9	217.9	63.9	111.6	32.7	24.8	211.2	61.9	109.4	32.1	25.8
	7650	62	16.7	208.5	61.1	188.6	55.3	19.6	198.5	58.2	184.4	54.1	21.0	187.8	55.0	180.1	52.8	22.5	182.1	53.4	177.8	52.1	23.3
	3610	67	19.4	228.3	66.9	156.3	45.8	20.5	217.1	63.6	152.2	44.6	22.0	204.8	60.0	147.7	43.3	23.7	198.5	58.2	145.4	42.6	24.6
	0.23	72	22.2	246.6	72.3	122.8	36.0	21.4	233.7	68.5	118.6	34.8	23.1	219.7	64.4	114.0	33.4	25.0	212.8	62.4	111.8	32.8	26.0

CAPACITY RATINGS - 50 HZ

Model	AFR	EWB		Condenser Entering Air Temperature ºF (ºC)																			
	cfm			95°F (35°C)					105°F (40°C)					115°F (46°C)					125°F (52°C)				
PACM	l/s			Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI
[EER]	(BPF)	°F	°C	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW
300 [9.5]	7000	62	16.7	231.7	67.9	199.0	58.3	20.4	220.7	64.7	194.2	56.9	21.9	208.9	61.2	189.3	55.5	23.5	196.5	57.6	184.1	54.0	25.3
	3303	67	19.4	253.7	74.4	166.7	48.9	21.1	241.9	70.9	162.1	47.5	22.8	229.3	67.2	157.4	46.1	24.6	216.1	63.3	152.4	44.7	26.6
	0.21	72	22.2	274.5	80.4	133.0	39.0	21.8	261.9	76.8	128.7	37.7	23.7	248.5	72.8	124.1	36.4	25.7	234.5	68.7	119.4	35.0	27.8
	7500	62	16.7	234.7	68.8	205.9	60.4	20.5	223.4	65.5	201.2	59.0	22.0	211.4	62.0	196.2	57.5	23.7	198.8	58.3	191.0	56.0	25.5
	3539	67	19.4	257.1	75.3	171.9	50.4	21.2	245.0	71.8	167.3	49.0	22.9	232.1	68.0	162.5	47.6	24.8	218.7	64.1	157.4	46.1	26.8
	0.22	72	22.2	278.2	81.5	136.4	40.0	22.0	265.3	77.8	132.0	38.7	23.8	251.6	73.8	127.4	37.3	25.8	237.4	69.6	122.7	36.0	28.0
	8500	62	16.7	239.8	70.3	219.4	64.3	20.7	228.2	66.9	214.6	62.9	22.2	215.7	63.2	209.5	61.4	23.9	202.7	59.4	202.7	59.4	25.7
	4011	67	19.4	262.8	77.0	181.8	53.3	21.4	250.3	73.4	177.1	51.9	23.2	237.0	69.5	172.2	50.5	25.0	223.1	65.4	167.1	49.0	27.1
	0.24	72	22.2	284.6	83.4	142.8	41.9	22.2	271.2	79.5	138.4	40.6	24.1	257.0	75.3	133.8	39.2	26.1	242.2	71.0	129.0	37.8	28.3
320 [9.6]	8310	62	16.7	260.0	76.2	222.2	65.1	23.5	248.2	72.7	217.2	63.7	25.3	235.9	69.1	212.0	62.2	27.0	222.4	65.2	206.5	60.5	28.9
	3921	67	19.4	285.1	83.6	186.2	54.6	24.6	272.2	79.8	181.3	53.2	26.4	258.4	75.7	176.1	51.6	28.3	243.2	71.3	170.4	49.9	30.5
	0.21	72	22.2	308.7	90.5	148.6	43.6	25.5	294.4	86.3	143.7	42.1	27.5	278.4	81.6	138.4	40.6	29.6	261.8	76.7	132.9	39.0	32.1
	9100	62	16.7	264.7	77.6	232.6	68.2	23.7	252.6	74.0	227.6	66.7	25.5	239.8	70.3	222.3	65.2	27.2	225.8	66.2	216.6	63.5	29.2
	4294	67	19.4	290.4	85.1	194.1	56.9	24.8	277.1	81.2	189.0	55.4	26.6	262.6	77.0	183.6	53.8	28.6	246.9	72.4	177.9	52.1	30.8
	0.22	72	22.2	314.6	92.2	153.8	45.1	25.7	299.6	87.8	148.7	43.6	27.7	282.8	82.9	143.3	42.0	29.9	265.6	77.9	137.7	40.4	32.4
	9680	62	16.7	267.8	78.5	240.1	70.4	23.9	255.3	74.8	235.0	68.9	25.6	242.3	71.0	229.7	67.3	27.4	228.0	66.8	223.9	65.6	29.3
	4568	67	19.4	293.8	86.1	199.6	58.5	24.9	280.1	82.1	194.4	57.0	26.8	265.2	77.7	189.0	55.4	28.7	249.2	73.0	183.2	53.7	31.0
	0.23	72	22.2	318.3	93.3	157.4	46.1	25.9	302.8	88.8	152.3	44.6	27.9	285.5	83.7	146.7	43.0	30.1	268.0	78.6	141.0	41.3	32.6
360 [10.8]	9450	62	16.7	302.3	88.6	256.1	75.1	23.8	291.1	85.3	251.4	73.7	26.8	279.4	81.9	246.5	72.2	29.9	268.1	78.6	241.7	70.9	32.7
	4459	67	19.4	329.1	96.4	214.0	62.7	24.4	317.3	93.0	209.6	61.4	27.4	305.2	89.4	205.0	60.1	30.5	293.5	86.0	200.6	58.8	33.2
	0.20	72	22.2	354.3	103.9	170.4	50.0	24.9	342.0	100.2	166.2	48.7	28.0	329.3	96.5	161.9	47.4	31.0	323.1	94.7	159.8	46.8	32.4
	10400	62	16.7	307.8	90.2	268.6	78.7	23.9	296.3	86.8	263.8	77.3	26.9	284.3	83.3	258.9	75.9	30.0	272.7	79.9	254.1	74.5	32.8
	4908	67	19.4	335.2	98.3	223.4	65.5	24.5	323.1	94.7	218.9	64.2	27.6	310.6	91.0	214.2	62.8	30.6	298.7	87.5	209.7	61.5	33.3
	0.22	72	22.2	361.1	105.8	176.5	51.7	25.1	348.3	102.1	172.2	50.5	28.1	335.2	98.3	167.9	49.2	31.1	328.8	96.4	165.8	48.6	32.5
	11550	62	16.7	313.2	91.8	283.2	83.0	24.0	301.4	88.3	278.3	81.6	27.0	289.2	84.8	273.4	80.1	30.1	277.3	81.3	268.6	78.7	32.9
	5450	67	19.4	341.4	100.1	234.1	68.6	24.7	328.9	96.4	229.5	67.3	27.7	316.1	92.6	224.9	65.9	30.7	309.8	90.8	222.6	65.2	32.1
	0.23	72	22.2	367.8	107.8	183.5	53.8	25.2	354.6	103.9	179.2	52.5	28.3	341.1	100.0	174.9	51.3	31.3	334.6	98.1	172.7	50.6	32.6

Notes :

1. See Page 2 for legend
2. Ratings are based on 80ºF (27ºC) entering air dry bulb temperature.
3. Direct interpolation is permissible. Do not extrapolate.
4. Shaded values are at 120°F (49°C) condenser entering air temperature.
5. The EER shown are at standard ARI conditions in Btuh/W.
6. SKM computer selections are available for quick and accurate selections.
7. Where blanks replace capacity data, unit is not suitable for operation at that condition.

CAPACITY RATINGS - 60 HZ

Model	AFR	EWB		Condenser Entering Air Temperature ºF (ºC)																			
	cfm			95°F (35°C)					105°F (40°C)					115°F (46°C)					125°F (52°C)				
PACM	l/s			Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI
[EER]	(BPF)	°F	°C	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW
50 [9.4]	1380	62	16.7	47.9	14.0	40.3	11.8	4.4	45.9	13.4	39.4	11.6	4.7	43.7	12.8	38.5	11.3	5.0	41.4	12.1	37.5	11.0	5.3
	651	67	19.4	52.6	15.4	33.9	9.9	4.5	50.4	14.8	33.1	9.7	4.9	48.2	14.1	32.2	9.4	5.2	45.9	13.4	31.3	9.2	5.5
	0.21	72	22.2	57.0	16.7	27.3	8.0	4.7	54.8	16.1	26.5	7.8	5.1	52.5	15.4	25.7	7.5	5.4	50.2	14.7	24.9	7.3	5.8
	1620	62	16.7	49.4	14.5	43.7	12.8	4.4	47.3	13.9	42.7	12.5	4.7	45.0	13.2	41.8	12.2	5.0	42.6	12.5	40.8	12.0	5.4
	764	67	19.4	54.3	15.9	36.4	10.7	4.6	52.0	15.3	35.6	10.4	4.9	49.7	14.6	34.7	10.2	5.3	47.3	13.9	33.8	9.9	5.6
	0.23	72	22.2	58.9	17.3	28.9	8.5	4.8	56.6	16.6	28.1	8.2	5.1	54.2	15.9	27.3	8.0	5.5	51.9	15.2	26.6	7.8	5.9
	1870	62	16.7	50.7	14.9	46.9	13.8	4.5	48.4	14.2	46.0	13.5	4.8	46.1	13.5	45.0	13.2	5.1	43.7	12.8	43.7	12.8	5.4
	882	67	19.4	55.7	16.3	38.9	11.4	4.7	53.3	15.6	38.0	11.1	5.0	50.9	14.9	37.1	10.9	5.3	48.5	14.2	36.2	10.6	5.7
	0.25	72	22.2	60.4	17.7	30.5	8.9	4.8	58.0	17.0	29.7	8.7	5.2	55.6	16.3	28.9	8.5	5.6	53.2	15.6	28.1	8.3	5.9
60 [9.0]	1660	62	16.7	53.0	15.5	42.6	12.5	5.1	50.7	14.9	41.6	12.2	5.5	48.3	14.1	40.6	11.9	6.0	45.7	13.4	39.5	11.6	6.5
	783	67	19.4	57.9	17.0	35.9	10.5	5.2	55.4	16.2	35.0	10.3	5.7	52.9	15.5	34.0	10.0	6.3	50.2	14.7	33.0	9.7	6.8
	0.27	72	22.2	62.5	18.3	29.0	8.5	5.4	59.9	17.6	28.1	8.2	5.9	57.2	16.8	27.2	8.0	6.5	54.4	15.9	26.2	7.7	7.1
	1940	62	16.7	54.6	16.0	45.7	13.4	5.1	52.2	15.3	44.8	13.1	5.6	49.6	14.5	43.7	12.8	6.1	47.0	13.8	42.6	12.5	6.6
	915	67	19.4	59.6	17.5	38.3	11.2	5.3	57.1	16.7	37.3	10.9	5.8	54.4	15.9	36.3	10.7	6.4	51.6	15.1	35.3	10.4	6.9
	0.30	72	22.2	64.4	18.9	30.5	8.9	5.5	61.7	18.1	29.6	8.7	6.0	58.8	17.2	28.7	8.4	6.6	55.9	16.4	27.7	8.1	7.2
	2220	62	16.7	55.8	16.4	48.7	14.3	5.2	53.3	15.6	47.7	14.0	5.6	50.7	14.9	46.7	13.7	6.1	47.9	14.1	45.6	13.4	6.7
	1048	67	19.4	61.0	17.9	40.5	11.9	5.4	58.4	17.1	39.5	11.6	5.9	55.6	16.3	38.5	11.3	6.4	52.7	15.4	37.5	11.0	7.0
	0.32	72	22.2	65.9	19.3	32.0	9.4	5.5	63.1	18.5	31.1	9.1	6.1	60.1	17.6	30.1	8.8	6.7	57.1	16.7	29.2	8.5	7.3
70 [8.3]	1900	62	16.7	57.7	16.9	46.7	13.7	5.8	55.5	16.3	45.8	13.4	6.2	53.1	15.6	44.8	13.1	6.6	50.6	14.8	43.7	12.8	7.1
	897	67	19.4	63.2	18.5	39.4	11.5	6.1	60.7	17.8	38.5	11.3	6.5	58.2	17.1	37.5	11.0	7.0	55.5	16.3	36.5	10.7	7.5
	0.29	72	22.2	68.3	20.0	31.7	9.3	6.3	65.7	19.3	30.8	9.0	6.8	63.0	18.5	29.9	8.8	7.3	60.1	17.6	29.0	8.5	7.9
	2220	62	16.7	59.4	17.4	50.2	14.7	5.9	57.0	16.7	49.2	14.4	6.3	54.5	16.0	48.2	14.1	6.7	51.9	15.2	47.1	13.8	7.2
	1048	67	19.4	65.0	19.1	42.0	12.3	6.2	62.5	18.3	41.0	12.0	6.6	59.8	17.5	40.1	11.7	7.1	56.9	16.7	39.0	11.4	7.6
	0.32	72	22.2	70.3	20.6	33.4	9.8	6.4	67.6	19.8	32.5	9.5	6.9	64.7	19.0	31.6	9.3	7.4	63.2	18.5	31.1	9.1	7.7
	2540	62	16.7	60.7	17.8	53.5	15.7	6.0	58.2	17.1	52.5	15.4	6.4	55.6	16.3	51.5	15.1	6.8	52.9	15.5	50.4	14.8	7.3
	1199	67	19.4	66.5	19.5	44.4	13.0	6.2	63.8	18.7	43.5	12.7	6.7	61.0	17.9	42.5	12.5	7.2	58.1	17.0	41.4	12.1	7.7
	0.34	72	22.2	71.9	21.1	35.0	10.3	6.4	69.1	20.2	34.1	10.0	6.9	66.1	19.4	33.2	9.7	7.5	64.5	18.9	32.7	9.6	7.8
80 [8.3]	2150	62	16.7	63.0	18.5	51.7	15.1	6.5	60.5	17.7	50.6	14.8	7.1	57.9	17.0	49.5	14.5	7.6	55.0	16.1	48.4	14.2	8.2
	1015	67	19.4	68.8	20.2	43.4	12.7	6.8	66.0	19.4	42.4	12.4	7.4	63.2	18.5	41.3	12.1	8.0	61.6	18.1	40.7	11.9	8.4
	0.30	72	22.2	74.1	21.7	34.7	10.2	7.1	71.2	20.9	33.7	9.9	7.8	68.1	20.0	32.7	9.6	8.4	66.4	19.5	32.2	9.4	8.7
	2400	62	16.7	64.2	18.8	54.3	15.9	6.6	61.6	18.1	53.3	15.6	7.1	58.9	17.3	52.2	15.3	7.7	55.9	16.4	51.0	14.9	8.3
	1133	67	19.4	70.1	20.5	45.3	13.3	6.9	67.3	19.7	44.3	13.0	7.5	64.3	18.8	43.2	12.7	8.1	62.7	18.4	42.7	12.5	8.4
	0.32	72	22.2	75.6	22.2	36.0	10.6	7.2	72.6	21.3	35.0	10.3	7.9	69.3	20.3	34.0	10.0	8.5	67.6	19.8	33.4	9.8	8.8
	2600	62	16.7	65.0	19.1	56.4	16.5	6.6	62.4	18.3	55.3	16.2	7.2	59.6	17.5	54.2	15.9	7.8	56.5	16.6	53.0	15.5	8.4
	1227	67	19.4	71.0	20.8	46.9	13.7	7.0	68.1	20.0	45.8	13.4	7.6	65.1	19.1	44.7	13.1	8.2	63.4	18.6	44.2	12.9	8.5
	0.33	72	22.2	76.6	22.4	37.0	10.9	7.3	73.5	21.5	36.0	10.6	7.9	70.2	20.6	35.0	10.2	8.6	68.4	20.1	34.4	10.1	8.9
90 [8.9]	2570	62	16.7	77.2	22.6	63.6	18.6	7.2	74.1	21.7	62.3	18.2	7.8	70.9	20.8	60.9	17.9	8.5	67.5	19.8	59.5	17.4	9.1
	1213	67	19.4	84.4	24.7	53.4	15.7	7.5	81.1	23.8	52.2	15.3	8.2	77.6	22.8	50.9	14.9	8.9	73.9	21.7	49.5	14.5	9.6
	0.28	72	22.2	91.2	26.7	42.8	12.6	7.8	87.7	25.7	41.6	12.2	8.5	83.9	24.6	40.4	11.8	9.2	79.9	23.4	39.1	11.4	10.0
	3000	62	16.7	79.4	23.3	68.3	20.0	7.3	76.1	22.3	67.0	19.6	7.9	72.8	21.3	65.7	19.2	8.6	69.2	20.3	64.2	18.8	9.2
	1416	67	19.4	86.9	25.5	57.0	16.7	7.6	83.4	24.4	55.7	16.3	8.3	79.7	23.4	54.3	15.9	9.0	75.8	22.2	53.0	15.5	9.7
	0.30	72	22.2	93.9	27.5	45.2	13.2	7.9	90.1	26.4	44.0	12.9	8.6	86.2	25.3	42.7	12.5	9.4	82.0	24.0	41.3	12.1	10.1
	3430	62	16.7	81.1	23.8	72.9	21.4	7.4	77.7	22.8	71.5	21.0	8.0	74.2	21.8	70.1	20.5	8.7	70.5	20.7	68.6	20.1	9.3
	1619	67	19.4	88.8	26.0	60.3	17.7	7.7	85.1	25.0	59.0	17.3	8.4	81.3	23.8	57.7	16.9	9.1	77.3	22.6	56.2	16.5	9.8
	0.33	72	22.2	96.0	28.1	47.4	13.9	8.0	92.1	27.0	46.1	13.5	8.7	87.9	25.8	44.8	13.1	9.5	83.6	24.5	43.4	12.7	10.2
100 [7.9]	2720	62	16.7	87.1	25.5	69.1	20.2	8.7	83.3	24.4	67.5	19.8	9.3	79.2	23.2	65.8	19.3	9.9	75.1	22.0	64.1	18.8	10.6
	1284	67	19.4	95.4	28.0	58.5	17.1	9.1	91.3	26.8	57.0	16.7	9.8	87.2	25.5	55.4	16.2	10.4	83.0	24.3	53.8	15.8	11.1
	0.29	72	22.2	103.1	30.2	47.4	13.9	9.5	99.0	29.0	45.9	13.5	10.2	94.7	27.8	44.5	13.0	10.9	90.6	26.5	43.1	12.6	11.6
	3180	62	16.7	89.8	26.3	74.2	21.8	8.9	85.8	25.1	72.6	21.3	9.5	81.6	23.9	70.8	20.8	10.1	77.3	22.7	69.1	20.3	10.7
	1501	67	19.4	98.3	28.8	62.3	18.3	9.3	94.2	27.6	60.8	17.8	9.9	89.8	26.3	59.2	17.3	10.6	85.5	25.1	57.6	16.9	11.3
	0.31	72	22.2	106.4	31.2	49.9	14.6	9.7	102.1	29.9	48.5	14.2	10.3	97.7	28.6	47.1	13.8	11.0	93.4	27.4	45.7	13.4	11.8
	3630	62	16.7	91.8	26.9	78.9	23.1	9.0	87.7	25.7	77.3	22.6	9.6	83.3	24.4	75.5	22.1	10.2	79.0	23.2	73.8	21.6	10.9
	1713	67	19.4	100.6	29.5	65.8	19.3	9.4	96.3	28.2	64.2	18.8	10.0	91.8	26.9	62.7	18.4	10.7	87.5	25.6	61.1	17.9	11.4
	0.34	72	22.2	108.9	31.9	52.2	15.3	9.8	104.5	30.6	50.8	14.9	10.5	100.0	29.3	49.4	14.5	11.2	97.8	28.7	48.7	14.3	11.6

SKM Packaged Air Conditioners
M-Series - R22

CAPACITY RATINGS - 60 HZ

Model	AFR	EWB		Condenser Entering Air Temperature ºF (ºC)																			
	cfm			95°F (35°C)					105°F (40°C)					115°F (46°C)					125°F (52°C)				
PACM	l/s			Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI
[EER]	(BPF)	°F	°C	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW
	2720	62	16.7	89.5	26.2	76.7	22.5	8.4	85.6	25.1	75.0	22.0	9.0	81.5	23.9	73.3	21.5	9.6	77.1	22.6	71.4	20.9	10.4
	1284	67	19.4	98.0	28.7	64.2	18.8	8.7	93.8	27.5	62.6	18.4	9.4	89.4	26.2	61.0	17.9	10.1	84.6	24.8	59.2	17.3	10.9
	0.22	72	22.2	105.9	31.1	51.3	15.0	8.9	101.5	29.8	49.7	14.6	9.7	96.9	28.4	48.1	14.1	10.5	94.3	27.7	47.3	13.9	11.0
	3180	62	16.7	92.0	27.0	82.9	24.3	8.5	87.9	25.8	81.2	23.8	9.1	83.7	24.5	79.4	23.3	9.8	79.0	23.2	77.5	22.7	10.5
105 [8.4]	1501	67	19.4	100.8	29.5	68.8	20.2	8.8	96.4	28.3	67.2	19.7	9.5	91.9	26.9	65.5	19.2	10.3	86.8	25.4	63.6	18.7	11.1
	0.24	72	22.2	109.1	32.0	54.2	15.9	9.0	104.4	30.6	52.7	15.4	9.8	99.5	29.2	51.1	15.0	10.7	96.9	28.4	50.2	14.7	11.1
	3630	62	16.7	94.0	27.5	88.5	26.0	8.5	89.7	26.3	86.8	25.4	9.2	85.3	25.0	85.0	24.9	9.9	80.5	23.6	80.5	23.6	10.6
	1713	67	19.4	103.0	30.2	73.0	21.4	8.8	98.4	28.9	71.3	20.9	9.6	93.7	27.5	69.6	20.4	10.4	88.4	25.9	67.8	19.9	11.2
	0.26	72	22.2	111.4	32.7	56.9	16.7	9.1	106.6	31.3	55.4	16.2	9.9	101.5	29.8	53.7	15.8	10.8	98.8	29.0	52.9	15.5	11.2
	2720	62	16.7	97.8	28.7	80.3	23.5	10.2	93.6	27.4	78.4	23.0	11.0	89.1	26.1	76.5	22.4	11.9	84.5	24.8	74.5	21.8	12.9
	1284	67	19.4	106.7	31.3	67.7	19.8	10.6	102.2	30.0	65.9	19.3	11.6	97.4	28.6	64.0	18.8	12.6	92.6	27.1	62.2	18.2	13.7
	0.22	72	22.2	115.0	33.7	54.4	16.0	11.0	110.2	32.3	52.7	15.5	12.0	105.2	30.8	51.0	14.9	13.2	102.7	30.1	50.1	14.7	13.8
	3180	62	16.7	100.7	29.5	86.5	25.4	10.3	96.3	28.2	84.7	24.8	11.2	91.6	26.9	82.7	24.2	12.1	86.8	25.4	80.7	23.7	13.2
110 [8.0]	1501	67	19.4	109.9	32.2	72.3	21.2	10.8	105.2	30.8	70.5	20.7	11.7	100.2	29.4	68.6	20.1	12.8	97.7	28.6	67.7	19.8	13.4
	0.24	72	22.2	118.5	34.7	57.4	16.8	11.2	113.5	33.3	55.7	16.3	12.2	108.2	31.7	54.0	15.8	13.4	105.6	30.9	53.1	15.6	14.0
	3630	62	16.7	103.0	30.2	92.2	27.0	10.4	98.4	28.8	90.3	26.5	11.3	93.5	27.4	88.4	25.9	12.3	88.5	25.9	86.3	25.3	13.3
	1713	67	19.4	112.3	32.9	76.5	22.4	10.9	107.4	31.5	74.6	21.9	11.9	102.3	30.0	72.7	21.3	13.0	99.7	29.2	71.8	21.0	13.5
	0.26	72	22.2	121.2	35.5	60.1	17.6	11.3	116.0	34.0	58.4	17.1	12.4	110.5	32.4	56.6	16.6	13.6	107.8	31.6	55.7	16.3	14.2
	2860	62	16.7	108.3	31.7	85.2	25.0	11.7	104.1	30.5	83.3	24.4	12.5	99.6	29.2	81.3	23.8	13.3	94.7	27.8	79.2	23.2	14.3
	1350	67	19.4	118.3	34.7	72.4	21.2	12.3	113.7	33.3	70.6	20.7	13.2	108.9	31.9	68.6	20.1	14.1	106.3	31.2	67.6	19.8	14.6
	0.20	72	22.2	127.7	37.4	58.9	17.3	12.8	122.8	36.0	57.1	16.7	13.7	117.6	34.5	55.3	16.2	14.8	114.9	33.7	54.4	15.9	15.4
	3350	62	16.7	112.3	32.9	91.9	26.9	12.0	107.8	31.6	90.0	26.4	12.8	103.0	30.2	87.9	25.8	13.6	100.5	29.4	86.9	25.5	14.1
120 [8.0]	1581	67	19.4	122.7	36.0	77.4	22.7	12.5	117.8	34.5	75.5	22.1	13.4	112.7	33.0	73.6	21.6	14.4	110.0	32.2	72.6	21.3	15.0
	0.22	72	22.2	132.5	38.8	62.3	18.3	13.1	127.3	37.3	60.5	17.7	14.0	121.8	35.7	58.6	17.2	15.1	118.9	34.8	57.6	16.9	15.7
	3850	62	16.7	115.3	33.8	98.4	28.8	12.1	110.6	32.4	96.4	28.2	12.9	105.6	30.9	94.3	27.6	13.8	102.9	30.2	93.2	27.3	14.3
	1817	67	19.4	126.1	37.0	82.3	24.1	12.7	121.0	35.5	80.3	23.5	13.6	115.6	33.9	78.3	22.9	14.6	112.7	33.0	77.2	22.6	15.2
	0.24	72	22.2	136.2	39.9	65.4	19.2	13.2	130.7	38.3	63.6	18.6	14.2	124.9	36.6	61.7	18.1	15.3	121.9	35.7	60.7	17.8	15.9
	2860	62	16.7	107.1	31.4	84.6	24.8	11.1	102.4	30.0	82.6	24.2	11.8	97.5	28.6	80.4	23.6	12.7	94.9	27.8	79.3	23.2	13.1
	1350	67	19.4	116.8	34.2	71.8	21.0	11.6	111.9	32.8	69.8	20.5	12.4	106.5	31.2	67.7	19.8	13.3	103.6	30.4	66.6	19.5	13.8
	0.20	72	22.2	126.1	36.9	58.3	17.1	12.0	120.7	35.4	56.4	16.5	12.9	114.7	33.6	54.3	15.9	13.9	111.6	32.7	53.2	15.6	14.4
	3350	62	16.7	110.9	32.5	91.3	26.8	11.3	106.0	31.1	89.2	26.1	12.0	100.7	29.5	87.0	25.5	12.9	97.9	28.7	85.8	25.2	13.3
125 [8.2]	1581	67	19.4	121.1	35.5	76.8	22.5	11.8	115.8	33.9	74.8	21.9	12.6	110.0	32.2	72.6	21.3	13.5	106.9	31.3	71.4	20.9	14.1
	0.22	72	22.2	130.7	38.3	61.7	18.1	12.2	124.8	36.6	59.7	17.5	13.2	118.4	34.7	57.5	16.8	14.2	115.0	33.7	56.3	16.5	14.8
	3850	62	16.7	113.9	33.4	97.7	28.6	11.4	108.7	31.9	95.6	28.0	12.2	103.2	30.2	93.3	27.4	13.1	100.3	29.4	92.1	27.0	13.5
	1817	67	19.4	124.4	36.5	81.6	23.9	11.9	118.8	34.8	79.5	23.3	12.8	112.7	33.0	77.2	22.6	13.7	109.4	32.1	76.0	22.3	14.3
	0.24	72	22.2	134.3	39.4	64.8	19.0	12.4	128.0	37.5	62.7	18.4	13.4	121.2	35.5	60.5	17.7	14.4	117.6	34.5	59.3	17.4	15.0
	4240	62	16.7	135.3	39.6	116.7	34.2	12.4	130.0	38.1	114.5	33.6	13.4	124.5	36.5	112.2	32.9	14.6	118.7	34.8	109.8	32.2	15.8
	2001	67	19.4	148.0	43.4	97.6	28.6	12.9	142.3	41.7	95.4	28.0	14.0	136.4	40.0	93.2	27.3	15.3	130.1	38.1	90.9	26.6	16.5
	0.23	72	22.2	160.0	46.9	77.7	22.8	13.4	153.9	45.1	75.6	22.2	14.6	147.5	43.2	73.4	21.5	15.9	140.7	41.2	71.2	20.9	17.2
	5010	62	16.7	139.2	40.8	126.8	37.2	12.6	133.6	39.2	124.5	36.5	13.6	127.9	37.5	122.1	35.8	14.8	121.8	35.7	119.7	35.1	16.0
140 [8.7]	2364	67	19.4	152.3	44.6	105.0	30.8	13.1	146.3	42.9	102.8	30.1	14.2	140.1	41.1	100.5	29.5	15.5	133.5	39.1	98.1	28.8	16.7
	0.26	72	22.2	164.7	48.3	82.5	24.2	13.6	158.3	46.4	80.4	23.6	14.8	151.6	44.4	78.2	22.9	16.1	144.5	42.3	75.9	22.2	17.4
	5550	62	16.7	141.3	41.4	133.3	39.1	12.7	135.5	39.7	131.0	38.4	13.7	129.7	38.0	128.6	37.7	14.9	123.4	36.2	123.4	36.2	16.1
	2619	67	19.4	154.7	45.3	109.8	32.2	13.2	148.6	43.5	107.6	31.5	14.3	142.2	41.7	105.3	30.9	15.6	135.4	39.7	102.9	30.1	16.9
	0.27	72	22.2	167.3	49.0	85.6	25.1	13.7	160.8	47.1	83.5	24.5	14.9	153.8	45.1	81.2	23.8	16.2	146.5	42.9	78.9	23.1	17.5
	4240	62	16.7	136.8	40.1	117.4	34.4	11.9	130.6	38.3	114.7	33.6	12.8	123.9	36.3	111.9	32.8	13.7	116.8	34.2	109.0	31.9	14.8
	2001	67	19.4	149.8	43.9	98.3	28.8	12.3	143.1	41.9	95.8	28.1	13.3	136.0	39.8	93.1	27.3	14.3	128.4	37.6	90.2	26.4	15.5
	0.23	72	22.2	162.1	47.5	78.4	23.0	12.7	155.0	45.4	76.0	22.3	13.7	147.4	43.2	73.4	21.5	14.9	139.4	40.8	70.7	20.7	16.1
	5010	62	16.7	140.8	41.3	127.5	37.4	12.0	134.3	39.3	124.8	36.6	12.9	127.2	37.3	121.9	35.7	13.9	119.8	35.1	118.9	34.8	15.0
145 [9.1]	2364	67	19.4	154.3	45.2	105.8	31.0	12.4	147.3	43.2	103.1	30.2	13.4	139.8	41.0	100.4	29.4	14.5	131.9	38.6	97.5	28.6	15.7
	0.26	72	22.2	167.0	49.0	83.2	24.4	12.8	159.6	46.8	80.8	23.7	13.9	151.6	44.4	78.2	22.9	15.1	143.2	42.0	75.5	22.1	16.3
	5550	62	16.7	143.0	41.9	134.0	39.3	12.1	136.3	39.9	131.3	38.5	13.0	129.1	37.8	128.4	37.6	14.0	121.5	35.6	121.5	35.6	15.1
	2619	67	19.4	156.7	45.9	110.6	32.4	12.5	149.5	43.8	107.9	31.6	13.5	141.8	41.6	105.2	30.8	14.6	133.7	39.2	102.3	30.0	15.8
	0.27	72	22.2	169.7	49.7	86.4	25.3	12.9	162.1	47.5	83.9	24.6	14.0	153.9	45.1	81.2	23.8	15.2	145.3	42.6	78.5	23.0	16.5

CAPACITY RATINGS - 60 HZ

Model	AFR	EWB		Condenser Entering Air Temperature ºF (ºC)																			
	cfm			95°F (35°C)					105°F (40°C)					115°F (46°C)					125°F (52°C)				
PACM	l/s			Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI
[EER]	(BPF)	°F	°C	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW
155 [9.1]	4950	62	16.7	151.9	44.5	133.2	39.0	13.6	145.3	42.6	130.4	38.2	14.6	138.4	40.6	127.6	37.4	15.7	131.1	38.4	124.5	36.5	16.8
	2336	67	19.4	166.5	48.8	111.2	32.6	14.2	159.4	46.7	108.5	31.8	15.3	151.9	44.5	105.7	31.0	16.4	143.6	42.1	102.6	30.1	17.6
	0.24	72	22.2	180.3	52.8	88.2	25.9	14.7	172.6	50.6	85.6	25.1	15.8	164.2	48.1	82.8	24.3	17.0	154.9	45.4	79.8	23.4	18.4
	5500	62	16.7	154.7	45.3	140.4	41.1	13.7	147.8	43.3	137.5	40.3	14.7	140.8	41.3	134.7	39.5	15.8	133.2	39.0	131.6	38.6	16.9
	2595	67	19.4	169.6	49.7	116.5	34.1	14.3	162.2	47.5	113.7	33.3	15.4	154.4	45.3	110.9	32.5	16.5	145.9	42.8	107.7	31.6	17.7
	0.25	72	22.2	183.7	53.8	91.7	26.9	14.8	175.7	51.5	89.0	26.1	16.0	166.9	48.9	86.2	25.3	17.2	157.3	46.1	83.0	24.3	18.6
	6000	62	16.7	156.8	45.9	146.6	43.0	13.8	149.7	43.9	143.7	42.1	14.8	142.5	41.8	140.8	41.3	15.9	134.7	39.5	134.7	39.5	17.0
	2831	67	19.4	171.9	50.4	121.0	35.5	14.4	164.4	48.2	118.3	34.7	15.5	156.4	45.8	115.3	33.8	16.6	147.6	43.3	112.2	32.9	17.9
	0.27	72	22.2	186.3	54.6	94.6	27.7	14.9	178.1	52.2	92.0	27.0	16.1	168.9	49.5	89.0	26.1	17.3	159.0	46.6	85.8	25.2	18.7
160 [8.8]	4950	62	16.7	153.0	44.8	133.7	39.2	14.3	146.9	43.1	131.1	38.4	15.5	140.6	41.2	128.5	37.7	16.8	133.9	39.3	125.7	36.9	18.1
	2336	67	19.4	167.3	49.0	111.5	32.7	14.9	160.7	47.1	109.0	32.0	16.2	153.9	45.1	106.5	31.2	17.6	146.6	43.0	103.7	30.4	19.0
	0.24	72	22.2	180.7	53.0	88.4	25.9	15.5	173.7	50.9	86.0	25.2	16.9	166.4	48.8	83.5	24.5	18.3	158.5	46.5	80.9	23.7	19.7
	5500	62	16.7	155.7	45.6	140.8	41.3	14.4	149.4	43.8	138.2	40.5	15.6	143.0	41.9	135.6	39.7	16.9	136.1	39.9	132.8	38.9	18.3
	2595	67	19.4	170.3	49.9	116.8	34.2	15.0	163.6	47.9	114.2	33.5	16.3	156.5	45.9	111.6	32.7	17.7	149.0	43.7	108.9	31.9	19.1
	0.25	72	22.2	184.1	53.9	91.8	26.9	15.6	176.8	51.8	89.4	26.2	17.0	169.2	49.6	86.9	25.5	18.5	161.1	47.2	84.3	24.7	19.9
	6000	62	16.7	157.8	46.2	147.0	43.1	14.5	151.4	44.4	144.4	42.3	15.7	144.7	42.4	141.7	41.5	17.0	137.7	40.3	137.7	40.3	18.4
	2831	67	19.4	172.6	50.6	121.3	35.5	15.2	165.7	48.6	118.7	34.8	16.5	158.5	46.5	116.1	34.0	17.9	150.8	44.2	113.4	33.2	19.2
	0.27	72	22.2	186.6	54.7	94.7	27.8	15.7	179.2	52.5	92.3	27.1	17.1	171.4	50.2	89.8	26.3	18.6	163.1	47.8	87.1	25.5	20.0
170 [8.6]	5010	62	16.7	156.5	45.9	127.9	37.5	14.4	150.2	44.0	125.3	36.7	15.6	143.6	42.1	122.6	35.9	17.0	136.7	40.1	119.7	35.1	18.3
	2364	67	19.4	171.2	50.2	107.7	31.6	15.1	164.4	48.2	105.2	30.8	16.4	157.3	46.1	102.5	30.0	17.8	149.7	43.9	99.6	29.2	19.2
	0.26	72	22.2	185.0	54.2	86.6	25.4	15.7	177.7	52.1	84.1	24.7	17.1	170.0	49.8	81.5	23.9	18.5	161.9	47.4	78.8	23.1	19.9
	6000	62	16.7	161.8	47.4	139.3	40.8	14.7	155.1	45.5	136.6	40.0	15.9	148.2	43.4	133.8	39.2	17.2	140.8	41.3	130.8	38.3	18.6
	2831	67	19.4	177.1	51.9	116.2	34.1	15.3	169.9	49.8	113.5	33.3	16.7	162.3	47.6	110.8	32.5	18.1	154.3	45.2	107.9	31.6	19.5
	0.29	72	22.2	191.5	56.1	92.2	27.0	16.0	183.8	53.9	89.7	26.3	17.3	175.6	51.5	87.0	25.5	18.8	166.9	48.9	84.2	24.7	20.2
	6950	62	16.7	165.7	48.6	149.5	43.8	14.8	158.7	46.5	146.7	43.0	16.1	151.5	44.4	143.8	42.1	17.4	143.8	42.1	140.7	41.3	18.8
	3280	67	19.4	181.5	53.2	123.7	36.3	15.5	174.0	51.0	121.1	35.5	16.9	166.1	48.7	118.3	34.7	18.3	157.7	46.2	115.3	33.8	19.7
	0.32	72	22.2	196.4	57.6	97.2	28.5	16.2	188.2	55.2	94.6	27.7	17.6	179.6	52.7	91.8	26.9	19.0	170.6	50.0	89.0	26.1	20.5
220 [8.4]	6320	62	16.7	179.9	52.7	149.7	43.9	16.7	171.9	50.4	146.4	42.9	17.9	163.8	48.0	143.0	41.9	19.2	154.9	45.4	139.4	40.9	20.6
	2982	67	19.4	196.9	57.7	125.6	36.8	17.3	188.5	55.2	122.4	35.9	18.6	179.8	52.7	119.2	34.9	20.1	170.2	49.9	115.7	33.9	21.7
	0.30	72	22.2	212.9	62.4	100.4	29.4	17.8	204.1	59.8	97.4	28.6	19.3	194.8	57.1	94.4	27.7	21.0	184.4	54.0	91.0	26.7	22.6
	6670	62	16.7	181.6	53.2	153.5	45.0	16.7	173.5	50.9	150.2	44.0	18.0	165.3	48.4	146.8	43.0	19.3	156.3	45.8	143.2	42.0	20.7
	3148	67	19.4	198.8	58.3	128.4	37.6	17.3	190.3	55.8	125.2	36.7	18.7	181.4	53.2	122.0	35.8	20.2	171.7	50.3	118.4	34.7	21.8
	0.31	72	22.2	215.1	63.0	102.3	30.0	17.8	206.1	60.4	99.3	29.1	19.4	196.6	57.6	96.2	28.2	21.1	186.1	54.5	92.8	27.2	22.7
	7140	62	16.7	183.7	53.8	158.5	46.4	16.8	175.5	51.4	155.1	45.5	18.1	167.1	49.0	151.7	44.5	19.4	157.9	46.3	148.1	43.4	20.9
	3369	67	19.4	201.2	59.0	132.1	38.7	17.4	192.5	56.4	128.9	37.8	18.8	183.5	53.8	125.6	36.8	20.3	173.5	50.8	122.1	35.8	22.0
	0.32	72	22.2	217.7	63.8	104.7	30.7	17.9	208.5	61.1	101.7	29.8	19.5	198.8	58.3	98.6	28.9	21.2	188.1	55.1	95.2	27.9	22.9
240 [7.8]	6650	62	16.7	215.4	63.1	183.6	53.8	22.5	205.9	60.3	179.6	52.6	24.1	195.7	57.4	175.3	51.4	25.7	190.3	55.8	173.0	50.7	26.7
	3138	67	19.4	235.0	68.9	153.6	45.0	23.5	224.7	65.9	149.7	43.9	25.2	213.6	62.6	145.5	42.6	27.1	207.6	60.9	143.2	42.0	28.1
	0.24	72	22.2	253.5	74.3	122.3	35.9	24.5	242.2	71.0	118.5	34.7	26.3	229.9	67.4	114.3	33.5	28.4	223.4	65.5	112.1	32.9	29.5
	6950	62	16.7	217.1	63.6	187.6	55.0	22.6	207.4	60.8	183.5	53.8	24.2	197.1	57.8	179.2	52.5	25.9	191.6	56.2	176.9	51.9	26.8
	3280	67	19.4	236.9	69.4	156.5	45.9	23.6	226.5	66.4	152.6	44.7	25.3	215.1	63.1	148.3	43.5	27.2	209.0	61.3	146.0	42.8	28.2
	0.24	72	22.2	255.5	74.9	124.2	36.4	24.6	244.0	71.5	120.3	35.3	26.4	231.4	67.8	116.1	34.0	28.5	224.9	65.9	113.9	33.4	29.6
	7400	62	16.7	219.4	64.3	193.4	56.7	22.7	209.5	61.4	189.3	55.5	24.3	199.0	58.3	184.9	54.2	26.0	193.4	56.7	182.6	53.5	26.9
	3492	67	19.4	239.4	70.2	160.8	47.1	23.8	228.8	67.1	156.8	46.0	25.5	217.2	63.7	152.5	44.7	27.3	211.0	61.8	150.2	44.0	28.4
	0.25	72	22.2	258.2	75.7	127.0	37.2	24.7	246.5	72.2	123.0	36.1	26.6	233.6	68.5	118.8	34.8	28.7	226.9	66.5	116.6	34.2	29.8
250 [8.0]	7000	62	16.7	225.8	66.2	188.9	55.4	23.0	215.5	63.1	184.5	54.1	24.7	204.4	59.9	179.9	52.7	26.4	198.4	58.2	177.4	52.0	27.3
	3303	67	19.4	246.6	72.3	158.5	46.4	24.1	235.3	69.0	154.2	45.2	25.9	223.0	65.3	149.5	43.8	27.8	216.4	63.4	147.1	43.1	28.9
	0.22	72	22.2	266.0	78.0	126.7	37.1	25.1	253.3	74.2	122.4	35.9	27.1	239.6	70.2	117.7	34.5	29.2	232.6	68.2	115.4	33.8	30.4
	7230	62	16.7	227.3	66.6	191.9	56.3	23.1	216.8	63.5	187.5	55.0	24.7	205.6	60.3	182.8	53.6	26.5	199.6	58.5	180.3	52.9	27.4
	3412	67	19.4	248.2	72.7	160.8	47.1	24.2	236.7	69.4	156.4	45.9	26.0	224.2	65.7	151.7	44.5	27.9	217.6	63.8	149.2	43.7	29.0
	0.22	72	22.2	267.7	78.5	128.2	37.6	25.2	254.8	74.7	123.8	36.3	27.2	240.9	70.6	119.1	34.9	29.3	233.9	68.5	116.8	34.2	30.5
	7650	62	16.7	229.7	67.3	197.4	57.9	23.2	219.0	64.2	192.9	56.5	24.9	207.6	60.8	188.2	55.2	26.6	201.4	59.0	185.6	54.4	27.6
	3610	67	19.4	250.9	73.5	164.8	48.3	24.3	239.2	70.1	160.4	47.0	26.1	226.4	66.4	155.6	45.6	28.1	219.6	64.4	153.1	44.9	29.1
	0.23	72	22.2	270.6	79.3	130.8	38.3	25.4	257.4	75.4	126.4	37.0	27.4	243.1	71.2	121.6	35.7	29.5	236.0	69.2	119.3	35.0	30.7

CAPACITY RATINGS - 60 HZ

Model	AFR	EWB		Condenser Entering Air Temperature ºF (ºC)																			
	cfm			95°F (35°C)					105°F (40°C)					115°F (46°C)					125°F (52°C)				
PACM	l/s			Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI	Total Capacity		Sensible Capacity		PI
[EER]	(BPF)	°F	°C	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW	MBh	kW	MBh	kW	kW
	7000	62	16.7	255.5	74.9	209.4	61.4	24.0	243.8	71.5	204.2	59.9	25.7	231.3	67.8	198.8	58.3	27.6	218.1	63.9	193.1	56.6	29.6
	3303	67	19.4	279.1	81.8	176.7	51.8	24.9	266.6	78.1	171.7	50.3	26.8	253.2	74.2	166.5	48.8	28.9	239.1	70.1	161.1	47.2	31.1
	0.21	72	22.2	301.5	88.4	142.5	41.8	25.7	288.2	84.5	137.8	40.4	27.8	274.0	80.3	132.8	38.9	30.1	259.0	75.9	127.7	37.4	32.5
	7500	62	16.7	259.0	75.9	216.4	63.4	24.1	247.1	72.4	211.3	61.9	25.9	234.3	68.7	205.8	60.3	27.8	220.8	64.7	200.1	58.6	29.8
300 [8.7]	3539	67	19.4	283.1	83.0	181.9	53.3	25.0	270.3	79.2	176.9	51.9	27.0	256.6	75.2	171.7	50.3	29.1	242.2	71.0	166.3	48.7	31.3
	0.22	72	22.2	305.8	89.6	146.0	42.8	25.9	292.2	85.6	141.2	41.4	28.0	277.7	81.4	136.2	39.9	30.3	262.4	76.9	131.0	38.4	32.8
	8500	62	16.7	265.2	77.7	230.0	67.4	24.4	252.7	74.1	224.8	65.9	26.1	239.4	70.2	219.2	64.3	28.1	225.4	66.1	213.4	62.6	30.2
	4011	67	19.4	289.9	85.0	192.0	56.3	25.3	276.6	81.1	187.0	54.8	27.2	262.4	76.9	181.7	53.2	29.4	247.4	72.5	176.0	51.6	31.7
	0.24	72	22.2	313.3	91.8	152.5	44.7	26.1	299.1	87.7	147.7	43.3	28.3	284.0	83.2	142.6	41.8	30.6	268.2	78.6	137.4	40.3	33.2
	8310	62	16.7	287.3	84.2	233.9	68.6	27.7	274.7	80.5	228.5	67.0	29.7	261.7	76.7	222.9	65.3	31.7	247.4	72.5	216.9	63.6	34.0
	3921	67	19.4	314.1	92.1	197.4	57.9	28.9	300.7	88.1	192.2	56.3	31.0	286.5	84.0	186.7	54.7	33.2	270.6	79.3	180.7	53.0	35.7
	0.21	72	22.2	339.6	99.5	159.3	46.7	30.0	325.0	95.3	154.2	45.2	32.2	309.0	90.6	148.7	43.6	34.6	300.4	88.0	145.8	42.7	36.0
	9100	62	16.7	292.9	85.8	244.5	71.7	27.9	279.9	82.1	239.0	70.1	29.9	266.5	78.1	233.4	68.4	32.0	251.7	73.8	227.2	66.6	34.3
320 [8.9]	4294	67	19.4	320.4	93.9	205.4	60.2	29.1	306.6	89.9	200.1	58.7	31.3	291.7	85.5	194.5	57.0	33.5	275.2	80.6	188.3	55.2	36.1
	0.22	72	22.2	346.5	101.6	164.7	48.3	30.3	331.3	97.1	159.4	46.7	32.6	314.5	92.2	153.7	45.1	35.0	305.5	89.5	150.7	44.2	36.4
	9680	62	16.7	296.4	86.9	252.1	73.9	28.1	283.3	83.0	246.5	72.3	30.1	269.5	79.0	240.8	70.6	32.2	254.3	74.5	234.5	68.7	34.5
	4568	67	19.4	324.5	95.1	211.1	61.9	29.3	310.3	90.9	205.8	60.3	31.5	295.0	86.5	200.0	58.6	33.7	278.0	81.5	193.7	56.8	36.3
	0.23	72	22.2	350.9	102.9	168.3	49.3	30.5	335.3	98.3	163.1	47.8	32.8	317.9	93.2	157.2	46.1	35.3	308.7	90.5	154.2	45.2	36.6
	9450	62	16.7	335.7	98.4	270.6	79.3	28.7	323.6	94.8	265.3	77.8	32.4	310.9	91.1	259.8	76.2	36.1	304.6	89.3	257.1	75.4	37.9
	4459	67	19.4	364.7	106.9	228.0	66.8	29.5	351.9	103.1	222.9	65.3	33.1	338.8	99.3	217.8	63.8	36.8	332.3	97.4	215.3	63.1	38.5
	0.20	72	22.2	392.2	114.9	183.6	53.8	30.1	378.8	111.0	178.9	52.4	33.8	365.1	107.0	174.1	51.0	37.5	358.5	105.1	171.9	50.4	39.1
	10400	62	16.7	342.4	100.4	283.3	83.0	28.9	329.8	96.7	277.9	81.5	32.6	316.8	92.8	272.4	79.8	36.3	310.3	91.0	269.7	79.1	38.0
360 [9.9]	4908	67	19.4	372.1	109.1	237.4	69.6	29.6	358.9	105.2	232.4	68.1	33.3	345.4	101.2	227.3	66.6	37.0	338.8	99.3	224.8	65.9	38.7
	0.22	72	22.2	400.2	117.3	189.9	55.7	30.3	386.4	113.2	185.1	54.3	34.0	372.3	109.1	180.3	52.8	37.6	365.5	107.1	178.0	52.2	39.3
	11550	62	16.7	349.0	102.3	298.1	87.4	29.1	336.0	98.5	292.6	85.8	32.7	322.6	94.6	287.1	84.1	36.4	316.1	92.6	284.4	83.3	38.1
	5450	67	19.4	379.5	111.2	248.5	72.8	29.8	365.9	107.2	243.4	71.3	33.5	352.0	103.2	238.1	69.8	37.2	345.2	101.2	235.6	69.1	38.8
	0.23	72	22.2	408.3	119.7	197.0	57.7	30.5	394.0	115.5	192.2	56.3	34.2	379.5	111.2	187.4	54.9	37.8	372.6	109.2	185.1	54.3	39.4

Notes :

1. See Page 2 for legend
2. Ratings are based on 80ºF (27ºC) entering air dry bulb temperature.
3. Direct interpolation is permissible. Do not extrapolate.
4. Shaded values are at 120°F (49°C) condenser entering air temperature.
5. The EER shown are at standard ARI conditions in Btuh/W.
6. SKM computer selections are available for quick and accurate selections.
7. Where blanks replace capacity data, unit is not suitable for operation at that condition.

FAN PERFORMANCE

MODEL	Air Flow Rate		ISP		External Static Pressure in.wg (Pa)														R.P.M. Range	
					0.2 (50)		0.4 (100)		0.5 (125)		0.6 (150)		0.8 (200)		1.0 (250)		1.25 (312)			
PACM	cfm	l/s	in.wg	Pa	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	50 Hz	60 Hz
50	1380	651	0.40	100.03	719	0.18	833	0.22	886	0.25	938	0.27	1035	0.33	1125	0.39	1230	0.46	818 to 1066	804 to 1049
	1620	764	0.54	135.23	800	0.26	900	0.31	948	0.34	995	0.37	1084	0.43	1169	0.49	1268	0.57		
	1870	882	0.71	176.39	886	0.37	976	0.43	1019	0.46	1061	0.50	1143	0.56	1221	0.63	1314	0.72		
60	1660	783	0.36	90.69	708	0.22	812	0.28	862	0.30	910	0.33	1004	0.39	1092	0.45	1195	0.53	812 to 1059	799 to 1043
	1940	915	0.49	121.73	789	0.33	880	0.39	924	0.42	968	0.45	1052	0.51	1133	0.58	1230	0.67		
	2220	1048	0.63	156.57	874	0.47	954	0.54	994	0.57	1032	0.60	1109	0.67	1183	0.75	1272	0.84		
70	1900	897	0.47	117.03	777	0.32	870	0.37	915	0.40	959	0.43	1045	0.49	1127	0.56	1224	0.65	914 to 1139	883 to 1101
	2220	1048	0.63	156.57	874	0.47	954	0.54	994	0.57	1032	0.60	1109	0.67	1183	0.75	1272	0.84		
	2540	1199	0.80	199.52	970	0.68	1041	0.75	1076	0.79	1110	0.82	1179	0.90	1246	0.98	1327	1.08		
80	2150	1015	0.50	125.40	815	0.41	899	0.47	940	0.50	980	0.53	1060	0.60	1136	0.67	1229	0.76		
	2400	1133	0.62	153.98	888	0.55	963	0.61	1000	0.65	1037	0.68	1110	0.76	1181	0.83	1267	0.93		
	2600	1227	0.72	178.18	946	0.68	1016	0.75	1050	0.79	1085	0.83	1153	0.90	1219	0.98	1300	1.08		
90	2570	1213	0.39	97.73	621	0.38	705	0.46	747	0.50	787	0.54	866	0.63	942	0.73	1031	0.85	737 to 919	740 to 923
	3000	1416	0.53	130.88	696	0.57	768	0.66	804	0.70	840	0.75	910	0.85	978	0.95	1060	1.09		
	3430	1619	0.67	167.74	771	0.82	835	0.91	867	0.96	898	1.02	961	1.12	1022	1.23	1097	1.38		
100	2720	1284	0.44	108.79	647	0.44	727	0.52	766	0.57	805	0.61	880	0.70	953	0.80	1040	0.93	742 to 925	747 to 931
	3180	1501	0.59	145.93	727	0.67	796	0.76	830	0.81	864	0.85	930	0.96	996	1.06	1075	1.20		
	3630	1713	0.75	185.78	807	0.95	867	1.05	897	1.11	927	1.16	986	1.27	1045	1.38	1117	1.53		
105	2720	1284	0.47	116.38	659	0.46	739	0.54	778	0.58	816	0.62	892	0.72	964	0.81	1051	0.94	793 to 989	
	3180	1501	0.63	155.92	741	0.69	810	0.78	843	0.83	877	0.87	944	0.98	1009	1.08	1088	1.22		
	3630	1713	0.80	198.39	822	0.98	882	1.08	912	1.13	942	1.19	1001	1.30	1059	1.41	1131	1.56		
110	2720	1284	0.47	116.38	659	0.46	739	0.54	778	0.58	816	0.62	892	0.72	964	0.81	1051	0.94		
	3180	1501	0.63	155.92	741	0.69	810	0.78	843	0.83	877	0.87	944	0.98	1009	1.08	1088	1.22		
	3630	1713	0.80	198.39	822	0.98	882	1.08	912	1.13	942	1.19	1001	1.30	1059	1.41	1131	1.56		
120	2860	1350	0.54	135.40	695	0.53	771	0.62	808	0.66	845	0.71	917	0.80	987	0.91	1071	1.04		
	3350	1581	0.73	181.51	785	0.81	850	0.90	882	0.95	914	1.00	977	1.11	1039	1.22	1115	1.37		
	3850	1817	0.93	232.72	876	1.17	932	1.28	960	1.34	989	1.39	1045	1.51	1100	1.63	1168	1.79		
125	2860	1350	0.54	135.40	695	0.53	771	0.62	808	0.66	845	0.71	917	0.80	987	0.91	1071	1.04		
	3350	1581	0.73	181.51	785	0.81	850	0.90	882	0.95	914	1.00	977	1.11	1039	1.22	1115	1.37		
	3850	1817	0.93	232.72	876	1.17	932	1.28	960	1.34	989	1.39	1045	1.51	1100	1.63	1168	1.79		

Areas shaded in blue indicate factory setting of rpm.
Areas shaded in grey indicate operating range outside the standard motor. Shift to one step larger motor size in this area.
Internal static pressure is based on pressure drops through evaporator coil, fan casing and 1" washable flat filter.
The shown rpm range is with standard pulleys combination.

SKM Packaged Air Conditioners
M-Series - R22

FAN PERFORMANCE

MODEL	Air Flow Rate		ISP		External Static Pressure in.wg (Pa)														R.P.M. Range	
					0.2 (50)		0.4 (100)		0.5 (125)		0.6 (150)		0.8 (200)		1.0 (250)		1.25 (312)			
PACM	cfm	l/s	in.wg	Pa	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	50 Hz	60 Hz
140	4240	2001	0.54	135.01	597	0.80	656	0.91	684	0.97	713	1.03	769	1.16	824	1.30	890	1.48	695 to 866	672 to 838
	5010	2364	0.74	183.74	681	1.25	731	1.38	756	1.44	780	1.51	829	1.66	877	1.81	935	2.01		
	5550	2619	0.88	220.37	739	1.65	785	1.79	807	1.86	830	1.94	874	2.09	918	2.25	971	2.46		
145	4240	2001	0.54	135.01	597	0.80	656	0.91	684	0.97	713	1.03	769	1.16	824	1.30	890	1.48		
	5010	2364	0.74	183.74	681	1.25	731	1.38	756	1.44	780	1.51	829	1.66	877	1.81	935	2.01		
	5550	2619	0.88	220.37	739	1.65	785	1.79	807	1.86	830	1.94	874	2.09	918	2.25	971	2.46		
155	4950	2336	0.58	144.69	638	1.12	690	1.24	715	1.31	740	1.38	789	1.51	838	1.66	898	1.85		
	5500	2595	0.71	175.75	696	1.49	742	1.63	765	1.70	788	1.77	833	1.92	877	2.07	932	2.28		
	6000	2831	0.82	205.50	748	1.90	790	2.05	811	2.12	832	2.20	874	2.36	915	2.52	966	2.73		
160	4950	2336	0.58	144.69	638	1.12	690	1.24	715	1.31	740	1.38	789	1.51	838	1.66	898	1.85		
	5500	2595	0.71	175.75	696	1.49	742	1.63	765	1.70	788	1.77	833	1.92	877	2.07	932	2.28		
	6000	2831	0.82	205.50	748	1.90	790	2.05	811	2.12	832	2.20	874	2.36	915	2.52	966	2.73		
170	5010	2364	0.32	80.59	574	1.00	627	1.11	652	1.18	678	1.24	727	1.37	777	1.50	837	1.69	620 to 773	
	6000	2831	0.45	113.14	666	1.64	711	1.78	732	1.85	754	1.92	797	2.07	839	2.22	890	2.42		
	6950	3280	0.60	149.07	756	2.48	795	2.64	814	2.72	833	2.80	870	2.97	907	3.14	953	3.36		
220	6320	2982	0.43	107.97	707	1.27	780	1.46	816	1.56	852	1.66	923	1.86	993	2.08	1079	2.37	790 to 986	744 to 928
	6670	3148	0.48	119.58	737	1.47	806	1.67	841	1.77	875	1.87	943	2.08	1010	2.31	1092	2.61		
	7140	3369	0.55	135.82	778	1.77	843	1.97	875	2.08	907	2.19	971	2.41	1034	2.65	1112	2.95		
240	6650	3138	0.52	128.34	749	1.50	818	1.69	852	1.79	887	1.90	955	2.11	1022	2.34	1103	2.64	804 to 1003	757 to 944
	6950	3280	0.56	139.37	775	1.69	841	1.89	874	1.99	907	2.10	973	2.32	1037	2.56	1116	2.86		
	7400	3492	0.63	156.45	815	2.00	877	2.21	908	2.32	939	2.43	1001	2.67	1062	2.91	1137	3.22		
250	7000	3303	0.60	150.57	792	1.76	858	1.96	890	2.07	923	2.18	988	2.40	1052	2.64	1130	2.95		849 to 1059
	7230	3412	0.64	159.81	813	1.92	876	2.13	908	2.24	940	2.35	1003	2.58	1065	2.82	1141	3.13		
	7650	3610	0.71	177.09	850	2.24	911	2.46	941	2.57	971	2.69	1030	2.92	1089	3.17	1162	3.50		
300	7000	3303	0.37	91.42	541	1.02	614	1.24	650	1.35	685	1.47	753	1.73	819	1.99	896	2.35	620 to 773	574 to 715
	7500	3539	0.42	104.22	568	1.22	637	1.45	670	1.57	704	1.69	769	1.95	831	2.23	906	2.60		
	8500	4011	0.53	132.03	624	1.70	685	1.95	715	2.08	745	2.21	804	2.49	861	2.79	931	3.18		
320	8310	3921	0.54	134.97	624	1.64	686	1.89	717	2.01	747	2.15	807	2.43	865	2.72	935	3.11	695 to 866	672 to 838
	9100	4294	0.64	159.73	669	2.09	726	2.35	755	2.49	783	2.63	838	2.93	892	3.24	958	3.64		
	9680	4568	0.72	178.71	702	2.47	756	2.74	783	2.89	810	3.03	862	3.34	914	3.66	977	4.08		
360	9450	4459	0.52	128.64	641	2.10	697	2.35	725	2.49	753	2.62	807	2.91	860	3.22	926	3.62	707 to 881	684 to 852
	10400	4908	0.62	153.78	693	2.72	744	3.00	769	3.14	795	3.29	844	3.60	894	3.92	954	4.34		
	11550	5450	0.75	186.04	755	3.64	802	3.94	825	4.09	847	4.25	893	4.58	-	-	-	-		

Areas shaded in blue indicate factory setting of rpm.
Areas shaded in grey indicate operating range outside the standard motor. Shift to one step larger motor size in this area.
Internal static pressure is based on pressure drops through evaporator coil, fan casing and 1" washable flat filter.
The shown rpm range is with standard pulleys combination.

SKM Packaged Air Conditioners
M-Series - R22

ELECTRICAL DATA

380 - 415 V / 3 Ph / 50 Hz (Tolerance : 342V - 440V)

Model PACM	Unit Characteristic		Compressor				Condenser Fan Motor			Evaporator Fan Motor	
	MFA	MCA	Qty.	MCC Each	RLA Each	LRA Each	Qty.	FLA Each	LRA Each	FLA	LRA
050	25	16	1	12	8.6	42	1	1.4	4.7	1.7	6.7
060	25	16	1	12	8.6	60	1	1.4	4.7	2.0	8.6
070	32	19	1	15	10.7	67	1	1.4	4.7	2.6	11.6
080	32	20	1	15.5	11.4	80	1	1.4	4.7	2.6	11.6
090	40	23	1	18	12.9	80	1	2.2	8.7	2.6	11.6
100	40	28	2	12	8.6	42	1	3.4	14.4	3.7	17.1
105	50	29	1	22	15.7	90	1	3.4	14.4	3.7	17.1
110	40	28	2	12	8.6	60	1	3.4	14.4	3.7	17.1
120	50	33	2	15	10.7	67	1	3.4	14.4	3.7	17.1
125	63	33	1	27	19.3	105	1	3.4	14.4	3.7	17.1
140	50	37	2	15.5	11.4	80	2	2.2	8.7	5.2	25.6
145	63	38	1	30	21.4	115	2	2.2	8.7	5.2	25.6
155	80	44	1	36	25.7	140	2	2.2	8.7	5.2	25.6
160	63	41	2	18	12.9	80	2	2.2	8.7	5.2	25.6
170	63	42	2	18	12.9	80	2	2.2	8.7	7.1	35.1
220	80	51	2	22	15.7	90	2	3.4	14.4	7.1	35.1
240	100	61	2	27	19.3	105	2	3.4	14.4	9.2	49.4
250	100	61	2	27	19.3	105	2	3.4	14.4	9.2	49.4
300	100	66	2	30	21.4	115	2	4.2	18.7	7.1	35.1
320	125	75	2	36	25.7	140	2	4.2	18.7	7.1	35.1
360	125	83	2	35	28.3	175	2	4.2	18.7	9.2	49.4

440 V / 3 Ph / 50 Hz (Tolerance : 400V - 460V)

Model PACM	Unit Characteristic		Compressor				Condenser Fan Motor			Evaporator Fan Motor	
	MFA	MCA	Qty.	MCC Each	RLA Each	LRA Each	Qty.	FLA Each	LRA Each	FLA	LRA
050	25	15	1	12	8.6	42	1	1.1	4.3	1.5	6.0
060	25	16	1	12	8.6	60	1	1.1	4.3	1.8	8.2
070	32	19	1	15	10.7	67	1	1.1	4.3	2.3	11.2
080	32	20	1	15.5	11.4	80	1	1.1	4.3	2.3	11.2
090	40	22	1	18	12.9	80	1	1.9	7.9	2.3	11.2
100	40	27	2	12	8.6	42	1	2.7	13.1	3.2	16.0
105	50	28	1	22	15.7	90	1	2.7	13.1	3.2	16.0
110	40	27	2	12	8.6	60	1	2.7	13.1	3.2	16.0
120	50	32	2	15	10.7	67	1	2.7	13.1	3.2	16.0
125	63	32	1	27	19.3	105	1	2.7	13.1	3.2	16.0
140	50	36	2	15.5	11.4	80	2	1.9	7.9	4.7	25.0
145	63	37	1	30	21.4	115	2	1.9	7.9	4.7	25.0
155	80	43	1	36	25.7	140	2	1.9	7.9	4.7	25.0
160	63	39	2	18	12.9	80	2	1.9	7.9	4.7	25.0
170	63	41	2	18	12.9	80	2	1.9	7.9	6.5	33.5
220	80	49	2	22	15.7	90	2	2.7	13.1	6.5	33.5
240	80	59	2	27	19.3	105	2	2.7	13.1	8	43.0
250	80	59	2	27	19.3	105	2	2.7	13.1	8	43.0
300	100	64	2	30	21.4	115	2	3.6	16	6.5	33.5
320	100	74	2	36	25.7	140	2	3.6	16	6.5	33.5
360	125	81	2	35	28.3	175	2	3.6	16	8	43.0

220 V / 3 Ph / 60 Hz (Tolerance : 180V - 253V)

Model PACM	Unit Characteristic		Compressor				Condenser Fan Motor			Evaporator Fan Motor	
	MFA	MCA	Qty.	MCC Each	RLA Each	LRA Each	Qty.	FLA Each	LRA Each	FLA	LRA
050	50	30	1	25	17.8	115	1	3	9.7	2.8	10.4
060	50	32	1	26	18.6	130	1	3	9.7	3.4	13.0
070	63	35	1	29	20.7	137	1	3	9.7	4.5	17.8
080	63	36	1	30	21.4	135	1	3	9.7	4.5	17.8
090	80	44	1	36	25.7	140	1	5.5	21.2	4.5	17.8
100	80	55	2	25	17.9	115	1	6.7	27.7	5.9	26.5
105	100	53	1	43	30.7	157	1	6.7	27.7	5.9	26.5
110	100	56	2	26	18.6	130	1	6.7	27.7	5.9	26.5
120	100	61	2	29	20.7	137	1	6.7	27.7	5.9	26.5
125	125	63	1	54	38.6	210	1	6.7	27.7	5.9	26.5
140	100	69	2	30	21.4	135	2	5.5	21.2	8.3	39.5
145	125	78	1	64	45.7	259	2	5.5	21.2	8.3	39.5
155	160	84	1	70	50.0	259	2	5.5	21.2	8.3	39.5
160	125	79	2	36	25.7	140	2	5.5	21.2	8.3	39.5
170	125	82	2	36	25.7	140	2	5.5	21.2	11.5	54.3
220	160	96	2	43	30.7	157	2	6.7	27.7	11.5	54.3
240	160	117	2	54	38.6	210	2	6.7	27.7	14.7	76.2
250	160	117	2	54	38.6	210	2	6.7	27.7	14.7	76.2
300	200	135	2	64	45.7	259	2	9.4	47.6	11.5	54.3
320	200	145	2	70	50.0	259	2	9.4	47.6	11.5	54.3
360	250	167	2	75	58.3	380	2	9.4	47.6	14.7	76.2

ELECTRICAL DATA

380 V / 3 Ph / 60 Hz (Tolerance : 342V - 418V)

Model PACM	Unit Characteristic		Compressor				Condenser Fan Motor			Evaporator Fan Motor	
	MFA	MCA	Qty.	MCC Each	RLA Each	LRA Each	Qty.	FLA Each	LRA Each	FLA	LRA
050	32	17	1	13.5	9.6	78	1	1.7	5.6	1.6	6.0
060	32	19	1	15	10.7	72	1	1.7	5.6	1.9	7.5
070	40	22	1	17.5	12.5	72	1	1.7	5.6	2.6	10.3
080	40	23	1	18.5	13.2	100	1	1.7	5.6	2.6	10.3
090	50	28	1	22.5	16.0	102	1	3.2	12.2	2.6	10.3
100	50	31	2	13.5	9.6	78	1	3.8	16	3.4	15.3
105	63	33	1	26	18.7	110	1	3.8	16	3.4	15.3
110	50	33	2	15	10.7	72	1	3.8	16	3.4	15.3
120	50	37	2	17.5	12.5	72	1	3.8	16	3.4	15.3
125	63	36	1	30	21.4	150	1	3.8	16	3.4	15.3
140	63	43	2	18.5	13.2	100	2	3.2	12.2	4.9	22.8
145	80	49	1	40	28.6	165	2	3.2	12.2	4.9	22.8
155	100	54	1	46	32.9	165	2	3.2	12.2	4.9	22.8
160	80	49	2	22.5	16.0	102	2	3.2	12.2	4.9	22.8
170	80	51	2	22.5	16.0	102	2	3.2	12.2	6.7	31.3
220	80	58	2	26	18.7	110	2	3.8	16	6.7	31.3
240	100	66	2	30	21.4	150	2	3.8	16	8.4	44.0
250	100	66	2	30	21.4	150	2	3.8	16	8.4	44.0
300	125	84	2	40	28.6	165	2	5.4	27.5	6.7	31.3
320	160	93	2	46	32.9	165	2	5.4	27.5	6.7	31.3
360	160	102	2	43	36.0	235	2	5.4	27.5	8.4	44.0

460 V / 3 Ph / 60 Hz (Tolerance : 414V - 506V)

Model PACM	Unit Characteristic		Compressor				Condenser Fan Motor			Evaporator Fan Motor	
	MFA	MCA	Qty.	MCC Each	RLA Each	LRA Each	Qty.	FLA Each	LRA Each	FLA	LRA
050	25	16	1	12	8.6	42	1	1.6	6.6	1.6	7.0
060	25	16	1	12	8.6	60	1	1.6	6.6	1.7	8.7
070	32	19	1	15	10.7	67	1	1.6	6.6	2.3	12.0
080	32	20	1	15.5	11.4	80	1	1.6	6.6	2.3	12.0
090	40	23	1	18	12.9	80	1	2.9	14.4	2.3	12.0
100	40	28	2	12	8.6	42	1	3.7	17.3	3.4	18.0
105	50	29	1	22	15.7	90	1	3.7	17.3	3.4	18.0
110	40	28	2	12	8.6	60	1	3.7	17.3	3.4	18.0
120	50	33	2	15	10.7	67	1	3.7	17.3	3.4	18.0
125	63	33	1	27	19.3	105	1	3.7	17.3	3.4	18.0
140	50	38	2	15.5	11.4	80	2	2.9	14.4	4.5	26.3
145	63	39	1	30	21.4	115	2	2.9	14.4	4.5	26.3
155	80	44	1	36	25.7	140	2	2.9	14.4	4.5	26.3
160	63	41	2	18	12.9	80	2	2.9	14.4	4.5	26.3
170	63	43	2	18	12.9	80	2	2.9	14.4	6.2	36.5
220	80	51	2	22	15.7	90	2	3.7	17.3	6.2	36.5
240	80	61	2	27	19.3	105	2	3.7	17.3	7.8	51.0
250	80	61	2	27	19.3	105	2	3.7	17.3	7.8	51.0
300	100	66	2	30	21.4	115	2	5	31.5	6.2	36.5
320	125	76	2	36	25.7	140	2	5	31.5	6.2	36.5
360	125	84	2	35	28.4	175	2	5	31.5	7.8	51.0

Note: Electrical data for motors (evaporator and condenser) is subject to tolerance as per IEC.

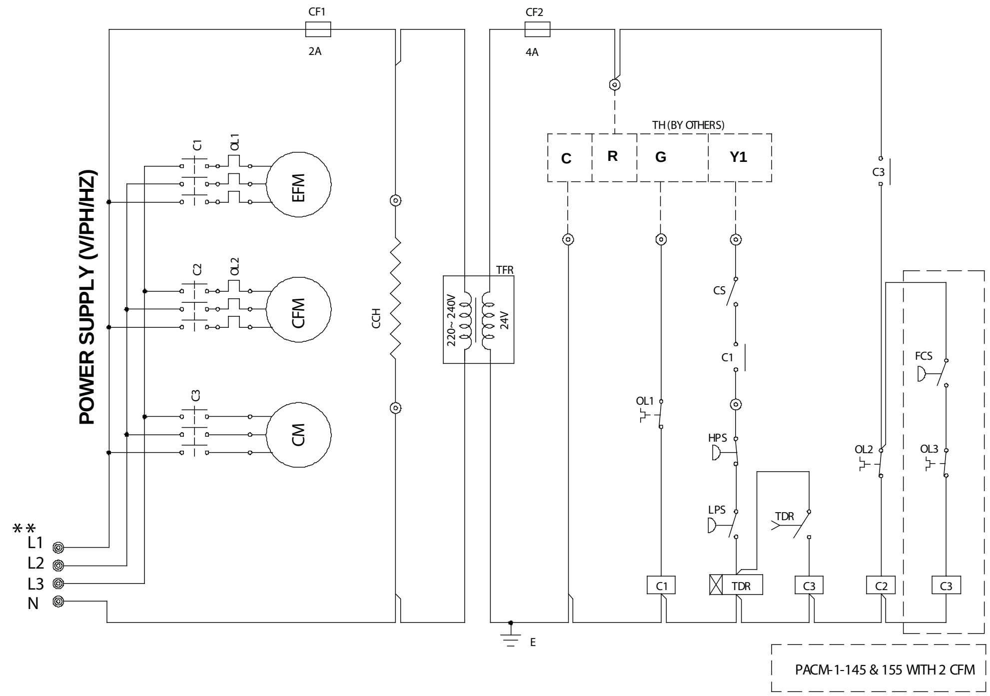
LEGENDS:

MCC Maximum Continuous Current corresponding to the cutout amps of internal motor protector.
MCA Minimum Circuit Amps for wire sizing
MFA Maximum Fuse Amps for Fuse sizing
RLA Rated Load Amps
FLA Full Load Amps
LRA Locked Rotor Amps

Voltage imbalance between phases to be <2%

Typical Wiring Diagram

PACM - 050 ~ 090, 105, 125, 145, 155



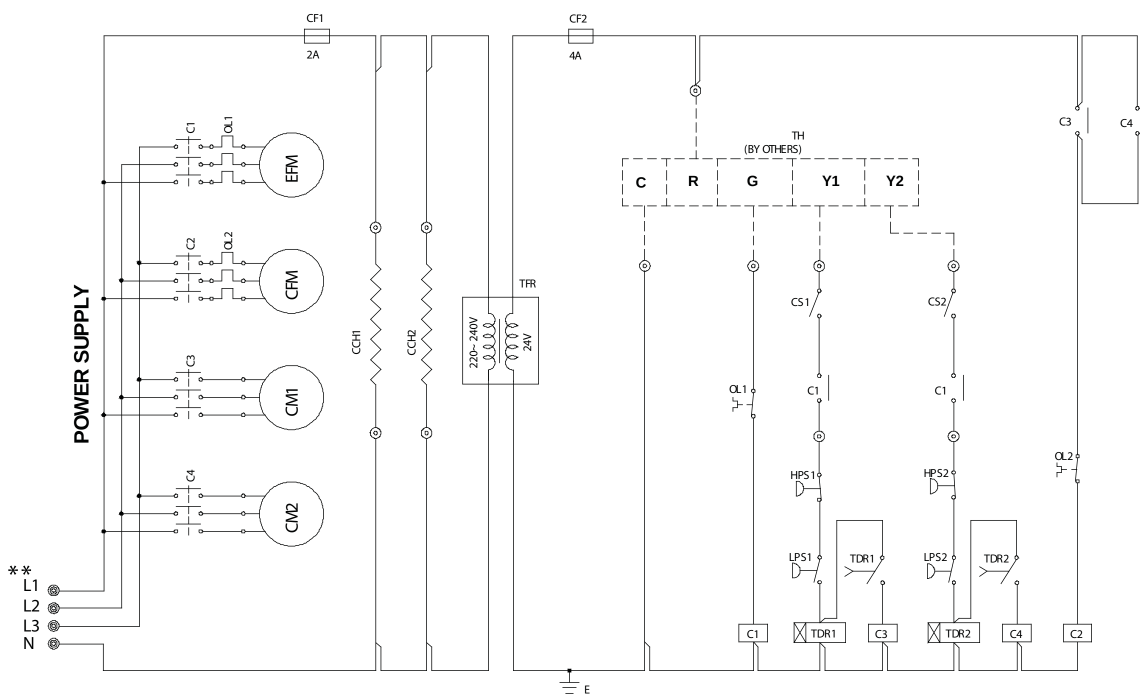
POWER SUPPLY
380V/3PH/50HZ
400V/3PH/50HZ
415V/3PH/50HZ
380V/3PH/60HZ

LEGEND

C	CONTACTOR
CCH	CRANK CASE HEATER
CF	CONTROL FUSE
CFM	CONDENSER FAN MOTOR
CM	COMPRESSO R MOTOR
CS	CONTROL SWITCH
EFM	EVAP ORATOR FAN MOTOR
HPS	HIGH PRESSUR E SWITCH
LPS	LOW PRESSUR E SWITCH
MPM	MOTOR P ROTECTOR MODULE
OL	OVERLOAD RELAY
TDR	TIME DELAY RELAY
TFR	TRANS FORMER
TH	THER MOSTAT
— — —	FIELD WIRING & FIELD SUPP LIED DEVICES

PACM - 100, 110, 120

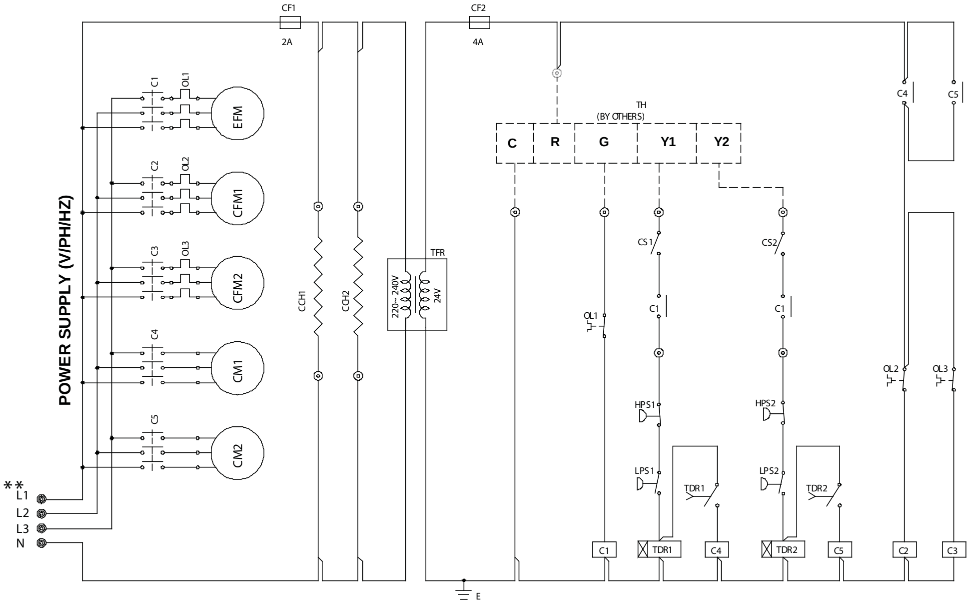
** PROVIDE OVERCURRENT, EARTH FAULT PROTECTION, SHORT CIRCUIT & DISCONNECT MEANS AS REQUIRED BY LOCAL AND NATIONAL ELECTRIC CODE.



Air Conditioning Equipment · Built in the Gulf... for the World

Typical Wiring Diagram

PACM - 140, 160 ~ 320

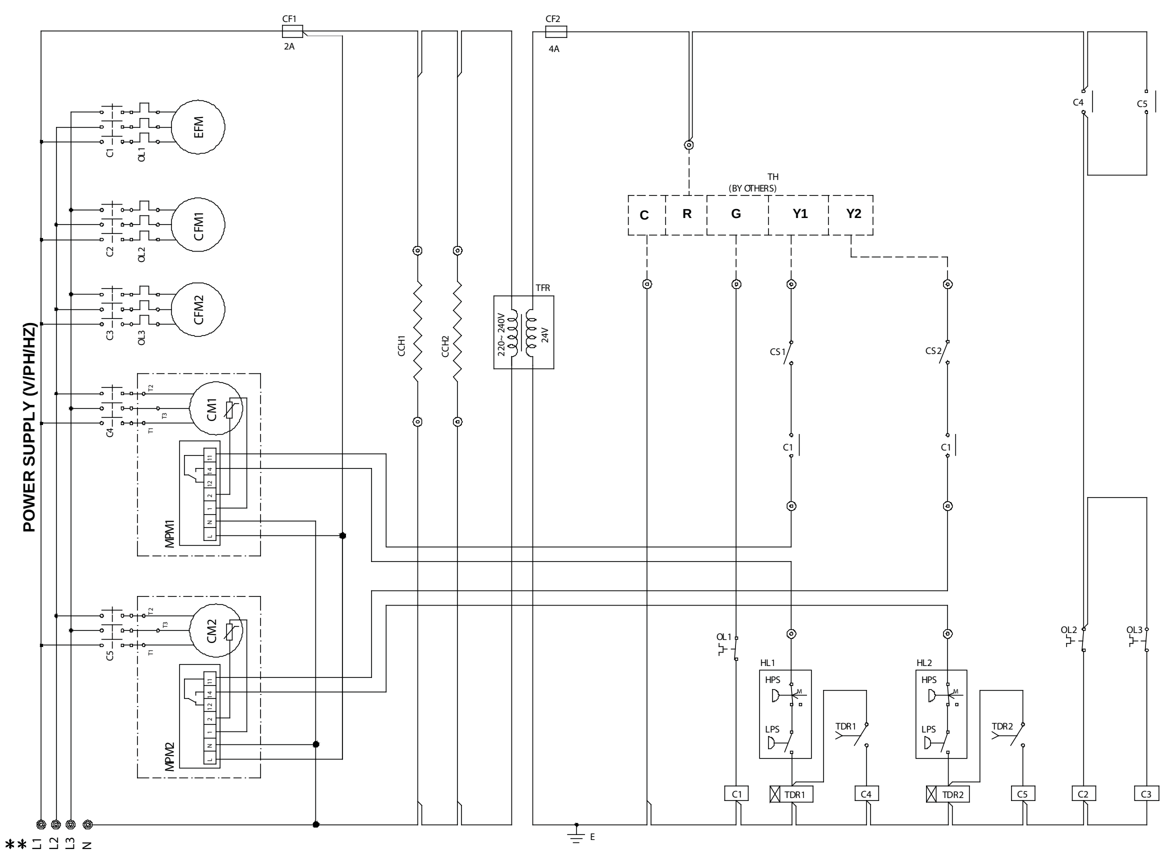


POWER SUPPLY
380V/3PH/50HZ
400V/3PH/50HZ
415V/3PH/50HZ
380V/3PH/60HZ

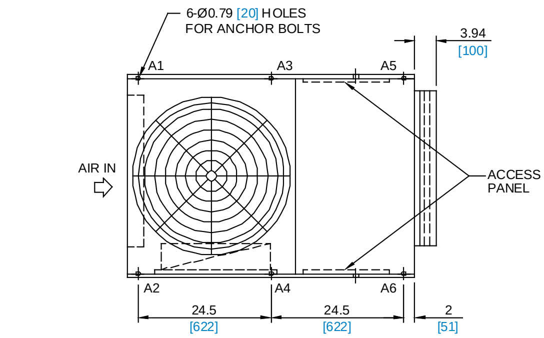
LEGEND	
C	CONTACTOR
CCH	CRANK CASE HEATER
CF	CONTROL FUSE
CFM	CONDENSER FAN MOTOR
CM	COMPRESSO R MOTOR
CS	CONTROL SWITCH
EFM	EVAP ORATOR FAN MOTOR
HPS	HIGH PRESSUR E SWITCH
LPS	LOW PRESSUR E SWITCH
MPM	MOTOR P ROTECTOR MODULE
OL	OVERLOAD RELAY
TDR	TIME DELAY RELAY
TFR	TRANS FORMER
TH	THER MOSTAT
— — —	FIELD WIRING & FIELD SUPPLIED DEVICES

PACM - 360

** PROVIDE OVERCURRENT, EARTH FAULT PROTECTION, SHORT CIRCUIT & DISCONNECT MEANS AS REQUIRED BY LOCAL AND NATIONAL ELECTRIC CODE.

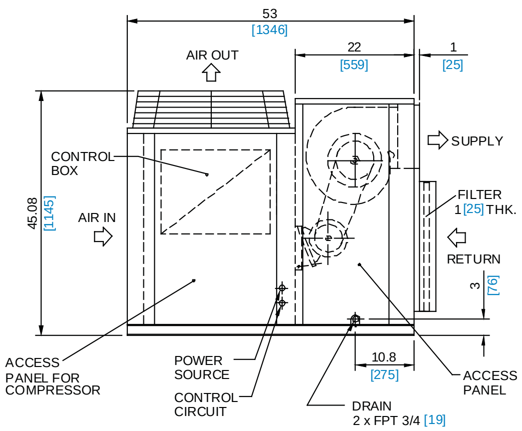


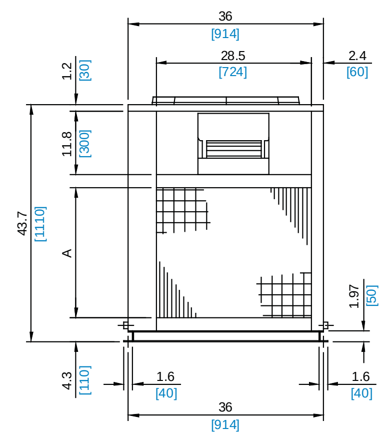
Dimensional Data

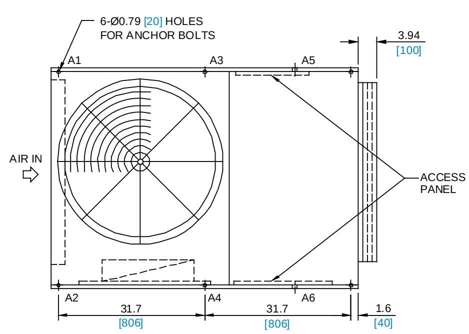


MODEL	A	LOAD AT EACH POINT Lbs[Kg] A1 - A6	TOTAL WEIGHT
PACM-050	18 [457]	71.3 x 6 NOS. [32.4 x 6 NOS.]	428 [194]
PACM-060	22 [559]	74.6 x 6 NOS. [33.9 x 6 NOS.]	448 [204]
PACM-070	22 [559]	76.3 x 6 NOS. [34.6 x 6 NOS.]	458 [208]
PACM-080	24 [610]	77.9 x 6 NOS. [35.4 x 6 NOS.]	468 [212]

A1-A6 ARE LOADING POINTS

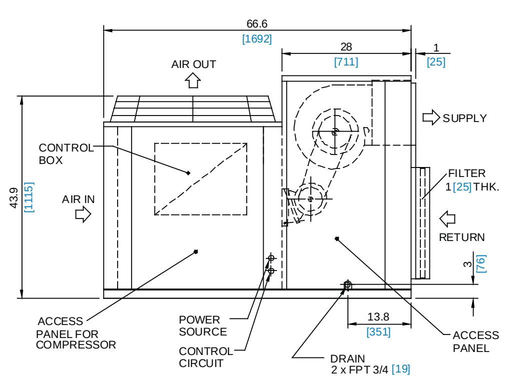


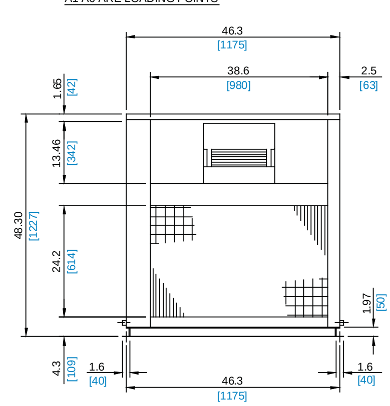




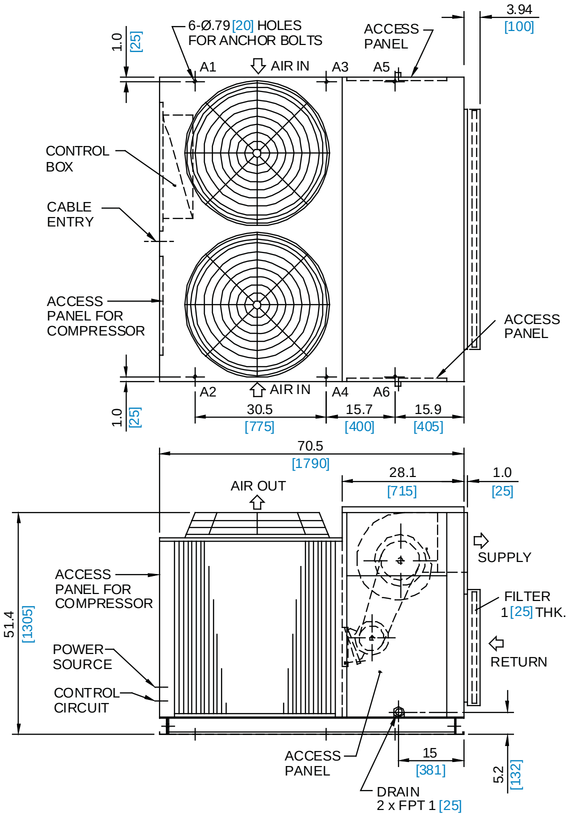
MODEL	LOAD AT EACH POINT Lbs[Kg] A1 - A6	TOTAL WEIGHT
PACM-090	118 x 6 NOS. [53 x 6 NOS.]	705 [320]
PACM-100	134 x 6 NOS. [61 x 6 NOS.]	802 [364]
PACM-110	136 x 6 NOS. [62 x 6 NOS.]	814 [369]
PACM-105	129 x 6 NOS. [59 x 6 NOS.]	776 [352]
PACM-120	138 x 6 NOS. [63 x 6 NOS.]	827 [375]
PACM-125	132 x 6 NOS. [60 x 6 NOS.]	794 [360]

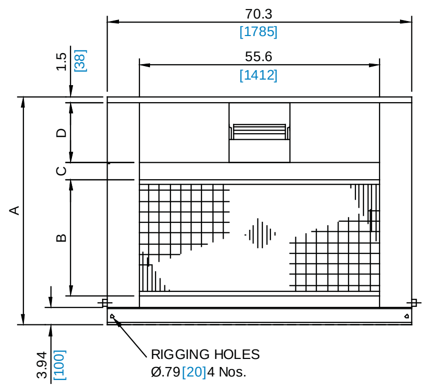
A1-A6 ARE LOADING POINTS





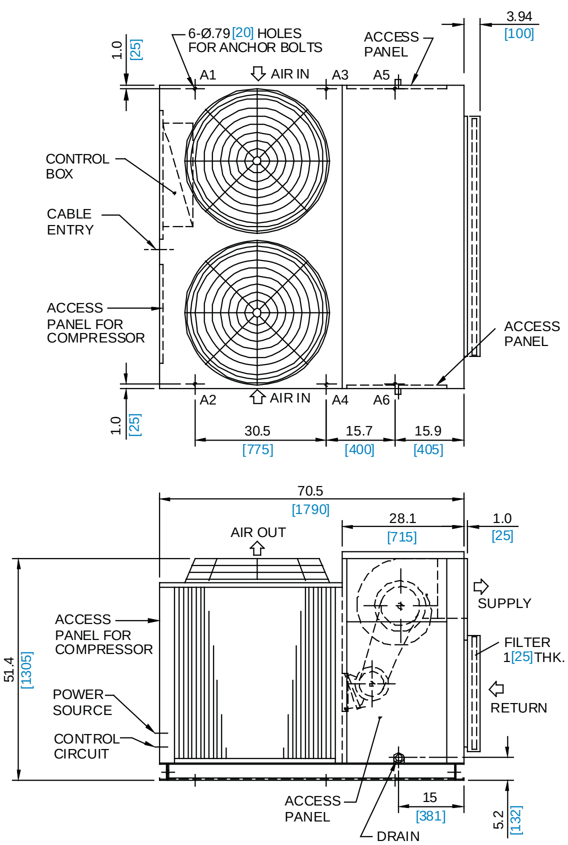
Dimensional Data

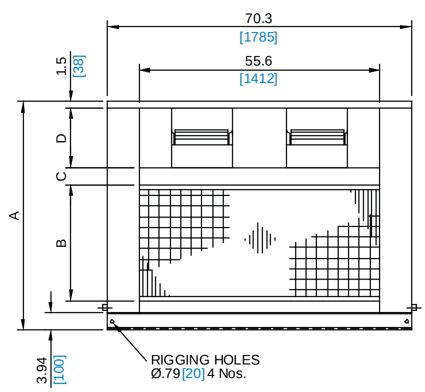




MODEL	A	B	C	D	LOAD AT EACH POINT Lbs [Kg] A1 - A6	TOTAL WEIGHT
PACM-140	52.2 [1326]	26.53 [674]	2.0 [50]	15.90 [404]	200 x 6 NOS. [91 x 6 NOS.]	1202 [545]
PACM-145	52.2 [1326]	26.53 [674]	2.0 [50]	15.90 [404]	195 x 6 NOS. [88 x 6 NOS.]	1168 [530]
PACM-155	55.19 [1402]	29.53 [750]	2.0 [50]	15.90 [404]	197 x 6 NOS. [89 x 6 NOS.]	1179 [535]
PACM-160	55.19 [1402]	29.53 [750]	2.0 [50]	15.90 [404]	202 x 6 NOS. [92 x 6 NOS.]	1213 [550]
PACM-170	64 [1626]	38.50 [978]	3.6 [92]	15.90 [404]	212 x 6 NOS. [96 x 6 NOS.]	1272 [577]

A1-A6 ARE LOADING POINTS

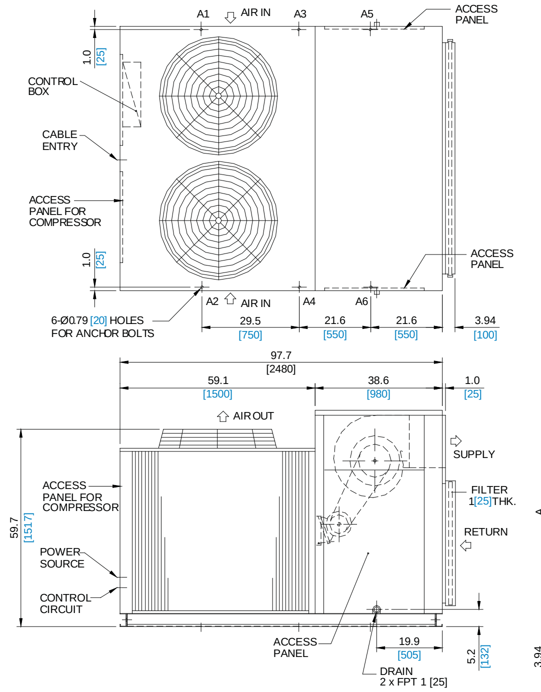




MODEL	A	B	C	D	LOAD AT EACH POINT Lbs [Kg] A1 - A6	TOTAL WEIGHT
PACM-220	64 [1626]	38.50 [978]	5.6 [142]	13.97 [355]	239 x 6 NOS. [108 x 6 NOS.]	1433 [650]
PACM-240	64 [1626]	38.50 [978]	5.6 [142]	13.97 [355]	243 x 6 NOS. [110 x 6 NOS.]	1459 [662]
PACM-250	64 [1626]	38.50 [978]	5.6 [142]	13.97 [355]	246 x 6 NOS. [112 x 6 NOS.]	1477 [670]

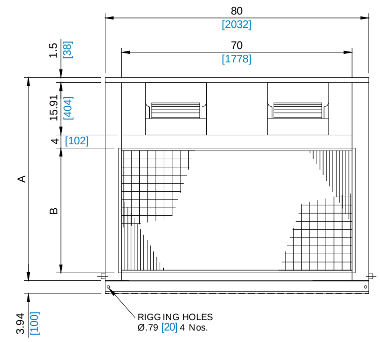
A1-A6 ARE LOADING POINTS

Dimensional Data



MODEL	A	B	LOAD AT EACH POINT Lbs [Kg] A1 - A6	TOTAL WEIGHT
PACM-300 PACM-320	61.21 [1555]	37.8 [960]	250 x 6 NOS. [113.6 x 6 NOS.]	1500 [682]
PACM-360	67.21 [1707]	43.8 [1113]	281.6 x 6 NOS. [128 x 6 NOS.]	1690 [768]

A1-A6 ARE LOADING POINTS

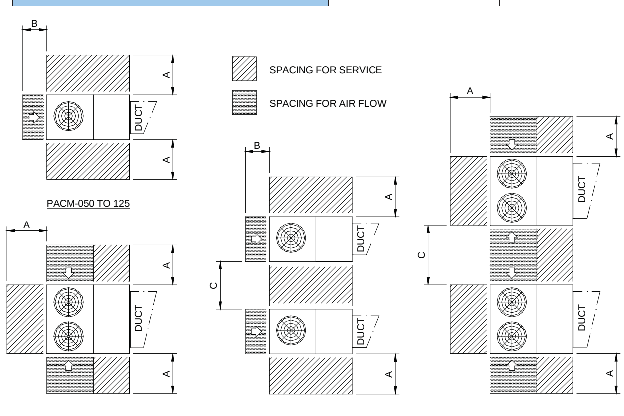


Installation & Commissioning

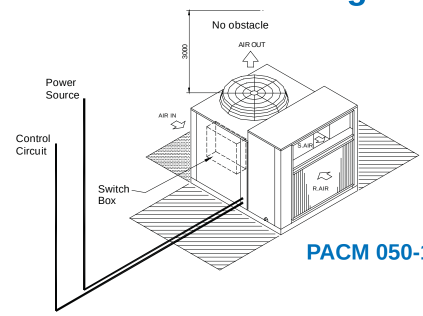
- Install the unit in such a location which is flat and strong enough to support its weight.
- Provide a trap of over 2" (50mm) in the drain piping for water seal.
- All field wiring must comply with applicable local and national codes.
- Connect supply and return ducts as shown.
- Service spacing should be provided as shown in the figure. If any obstacles are around the unit, distributed air is short-circuited so that the unit stops frequently and access to the unit is difficult for inspection and aftersales services.

Unit Clearance

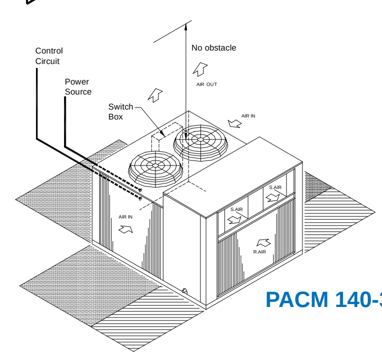
Model PACM	A	B	C
050, 060, 070, 080	40 [1016]	26 [660]	40 [1016]
090, 100, 105, 110, 120, 125		30 [762]	
140, 145, 155, 160, 170, 220, 240, 250		42 [1067]	63 [1600]
300, 320, 360			



Installation & Commissioning



PACM 050-125



PACM 140-360

GUIDE SPECIFICATIONS

GENERAL

Packaged air conditioners shall be composed of compressor(s), condenser & evaporator coils with fans, refrigerant piping, electrical components & enclosing cabinet in one piece. These units shall be factory assembled, internally wired, fully refrigerant charged with R22, tested under strict quality standards & are suitable for outdoor installation on rooftop or ground level with ducted system. These units shall be capable to operate from 60 °F (15.5°C) to 125 °F (52°C) ambient temperature without failure & shall be rated in accordance with ARI-360 & ARI - 210/240 standards. Capacity as per attached schedule.

COMPRESSOR(S)

Compressor(s) shall be hermetic reciprocating / scroll, refrigerant gas cooled, furnished with internal overload protection device, internal pressure relief valve, crankcase heater & shall be mounted on spring vibration isolators. These compressors conform to internationally recognized standards like NF, VDE, CSA & UL.

CONDENSER COIL(S)

Condenser coils shall be air cooled with integral sub cooler, constructed of special inner grooved seamless copper tubes 3/8" OD mechanically expanded into waffle louver aluminum cross fins with maximum 12 fpi (2.1mm) spacing. These coils shall be tested against leakage by air pressure of 450 psig (3100 kPa) under water, cleaned & dehydrated at the factory.

CONDENSER FAN(S) & MOTOR(S)

Condenser Fans shall be direct driven propeller type discharging air vertically upward, equipped with statically & dynamically balanced aluminum alloy blades, inherent corrosion resistant shaft & PVC coated steel wire fan guard. Condenser fan motor(s) shall be Totally Enclosed Air Over (TEAO), 6 poles with class-F insulation, minimum IP55 protection & wired to unit control panel.

EVAPORATOR COIL

Evaporator coil shall be constructed of seamless copper tubes 3/8" OD mechanically bonded to aluminum (copper) cross-wave fins with maximum 12fpi (2.1mm) spacing. Coil consists of headers of seamless copper tubing, thermostatic expansion valve(s) & multi-circuited distributor(s). These coils shall be tested against leakage by air pressure of 250 psig (1720 kPa) under water, cleaned & dehydrated at the factory. Coil shall conform to ARI-410.

EVAPORATOR FAN(S) & MOTOR

Fans of evaporators shall be forward curved, double inlet double width (DIDW), centrifugal type, statically & dynamically balanced, mounted on a single heavy duty shaft with permanently lubricated bearings & driven by V belt with an adjustable variable pitch motor pulley. Motor shall be Totally Enclosed Fan Cooled (TEFC), 4 poles, class-F insulated, minimum IP55 protection & wired to unit control panel.

REFRIGERANT PIPING

Refrigerant circuit piping shall be fabricated from ACR grade copper including shut-off valve, filter drier & thermostatic expansion valve. Suction line shall be insulated with ½" (12 mm) wall thickness enclosed cell pipe insulation with maximum k factor 0.28 Btu.in/ft^2 h°f (0.040 W / m °k).

CASING

Casing shall be made of hot dip galvanized, phosphatized steel sheets which are then electrostatically polyester powder coated to provide an extremely tough, scratch resistance & excellent anti-corrosive protection. Casing shall pass 1000 hours in 5% salt spray testing at 95°F (35°C) & 95% relative humidity as per ASTM B117-95. Evaporator section shall be sealed with vinyl gaskets & completely insulated faced with black glass tissue (BGT) heavy density, fire retardant, permanent odorless fiberglass insulation of minimum 1" (25 mm) thickness & 32 kg/m^3 density having maximum k factor 0.23 Btu.in/ft^2 h°f. (0.033 W / m °k). Unit casing shall be provided with access panels for easy service & maintenance of all unit parts.

FILTER SECTION

Packaged air conditioner shall be provided with easily accessible cleanable media, minimum 1" (25 mm) thick filter having average arrestance efficiency of 54% as per ASHRAE standard 52.1 or equivalent.

CONTROL PANEL

The panel shall be factory wired in accordance with NEC 430 & 440, and conforms to IP54 requirements. Control Panel shall contain individual electrical components' contactors, overload relays, transformer, anti-recycling time delay relay, control circuit disconnect switch, power & control circuit terminal blocks & High / low pressure switch.

Microprocessor based controller with built-in features of anti recycling timer, lead/lag operation of compressors, common alarm VFC, remote start/stop facility and cooling/heating functions shall be available, if so specified.